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tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg      240
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<223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:45-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

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 cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180  
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 <212> DNA  
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607

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<220>  
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<222> (580)..(580)  
<223> n equals a,t,g, or c

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<400> 22
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tcggcacgag aattggggaa aggtattc aatatttatt aagtaacaat gagaaatgca      180
acaaacttcc ttatttatgc cttatgaata aaagagtgtg gaatgtaagg tgaaatttta      240
tgtgcaagat cctgaaggaa tgggtattct tgaaggcagg gactgtcttt tctatgtttg      300
ttctgtacag ctctcagcac actcttgggtg cttgataaat gttatgatgt tataataac      360
caataactaa gcacattttt agatcttttt tcaaagggtg tgtgtaaaat ttggttaatg      420
tacaatgggt gggttgaagc tatcatgtaa aattggcctc tccaaatata atcagaaata      480
aaccgaaaaa aatataaaaa aaaaaaaaaa aaaaactcga gggggggccc ggtacccaat      540
tcgccctata gtgagtcgta tacnctaant nctttttntn cctatagtga gtctta      596

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<210> 23
<211> 1713
<212> DNA
<213> Homo sapiens

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<400> 23
gtctcaatgg acacttagaa gaatttgatg atcttactgt cataaaatca gtaatgaaat      60
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aaaattatca aatacattaa aaagttaata attttatagt gtactcacta cctagatgct      180
aattagcatt acctatgctt gctttgtcac atatccattc atcatttcat attattattt      240
gatgcatttt aaattgcata tcattaacta gaggtcattg ttggcttttt tacataaaat      300
tagcatgcaa tgaagtgcac agaaatatgt gttcactgag gtttggcaaa tgcatatagt      360
gctatggaaa taggaaacgt tatcaccacc ctgaaaagt tccacactgc ctttccagt      420
caattcctgt ccctacttga ccctcaaagg caaccactgt tcctttttct accataagat      480
ttttctgttc taaaacttta tataaataga gtcacgcaac atgtacgcttttctacaagg      540
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ttacagtttg ttttcttaat ttctattat tgatagatac ctgggctgtt tccaggattg      660
gccattttta ataaagctgc tatgaccatt cttacgtaag tctttgtgaa cataggtttt      720
catttctttg cagtaaatcc cttggattag aattgctggg tcacagggtg gttttaaaag      780
aaactgccat acctttttcc agttcagttt tattgtgccc tgtattttgt attttgatgt      840
gcataaaggt gtaaaactatt tttatgatcc atattgaagt attagaagaa gtgagtttgg      900
aataacaatg gcattgttca tgggtcaagga tgacaattgg aactactga ggaaagcaaa      960
gacctgtctg cccagacag ctccctcaagg ggttcctatg cctgaaaact tagcaatatt      1020
tacttccttg aaagggttaa gcccaacctt ggtgatatgt tagctagaag aaacagcact      1080
ggtttgttta tgttactaac tttcaccacc cgttttcagt aggtaaaagta agactgatca      1140
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tacctctccc agctgttcta ttacatacag cattcacctg tattagtcta tagaattata      1500
atcatctgtg tgtttctaag gctcattttc aaaaatatgt atggtttatt cgatttttcc      1560
tattaaaatt ttaagggtcg ggaaatttgg cttctactgt aaatccttat aatgttccac      1620
acattgtaaa tatgcaataa aaatgttaac aactawaaaa aaaaaaaaaa aaaaaactcg      1680
actcgtgccg aattcggcac gagcggcacg agc      1713

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<210> 24
<211> 1856
<212> DNA
<213> Homo sapiens

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<400> 24
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aaaggagttc atggctaatt tccataagac cctcattttg ggggaaggga aaactctgac      180

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taatgaagca	tccacgaaga	aggtagaact	tgacaactgy	ccttctgtgt	ctccttacct	240
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aaatcccaaa	gtgtccagag	gccggtatcg	ccctcaggaa	tgtaaagctt	tacagagggt	360
cgccatcctc	gttccccacc	ggaacagaga	gaaaacctg	atgtacctgc	tggaacatct	420
gcatcccttc	ctgcagaggc	agcagctgga	ttatggcatc	tacgtcatcc	accaggctga	480
aggtaaaaaag	tttaatcgag	ccaaaactctt	gaatgtgggc	tatctagaag	ccctcaagga	540
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caggttacgt	tacagtggat	attttggggg	tgttactgcc	ctaagcagag	agcagttttt	720
caaggtgaat	ggattctcta	acaactactg	gggatgggga	ggcgaagacg	atgacctcag	780
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<210> 25  
 <211> 1693  
 <212> DNA  
 <213> Homo sapiens

<400> 25						
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gcagaagcag	cagctgccac	agacaccccc	ttcctgtttg	aagactgaga	taatgtctcc	480
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cagtctacac	ctggacgtgt	gggccactta	agcctcccc	acccccatcc	tattcctaaa	1620
taaaaccagg	ataatggaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1680
ctcgaggggg	tcc					1693

<210> 26  
 <211> 726  
 <212> DNA  
 <213> Homo sapiens

<400> 26	
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gagtcctgaa	gaccagagag
cattgaaaat	tatgttttgg
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cctcttcctt	atcgccctggc
gttcttccatt	gtaagcttct
caaagtttaa	gagcatttag
cagcaaaactg	tgattctcaa
tcacctgtta	tgtattcgtc
gaaagttgta	aactagccca
ctaacattct	attttatgcc
aaaaaa	

<210> 27  
 <211> 2793  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (223)..(223)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2782)..(2782)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2786)..(2787)  
 <223> n equals a,t,g, or c

<400> 27	
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aggcatgcgt	acataggtgg
aaaagcaatc	aatatgtata
cagatcttgt	tacatttgcc
tttctgag	ttcagtgcaa
tggtaggccc	agtgtaaatg
ggcttatcct	gagtatttaa

ataaatagtt	attttaagaa	actaattcca	ctgaacctaa	aatcatcaaa	gcagcagtgg	540
cctctacgtt	ttactccttt	gctgaaaaaa	aatcatcttg	cccacaggcc	tgtggcaaaa	600
ggataaaaaat	gtgaacgaag	tttaacattc	tgacttgata	aagcttaat	aatgtacagt	660
gtttttctaaa	tattttcctgt	tttttcagca	ctttaacaga	tgccatycca	ggttaaactg	720
ggttgtctgt	actaaattat	aaacagagtt	aacttgaacc	ttttatatgt	tatgcattga	780
ttctaacaaa	ctgtaatgcc	ctcaacagaa	ctaattttac	taatacaata	ctgtgttctt	840
taaaacacag	cattttacact	gaatacaatt	tcatttgtaa	aactgtaaat	aagagctttt	900
gtactagccc	agtattttatt	tacattgcct	tgtaatatata	atctgtttta	gaactgcagc	960
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<210> 28  
 <211> 1219  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (575)..(575)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (582)..(582)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature



<222> (606)..(606)

<223> n equals a,t,g, or c

<400> 28

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gtaaaaacac	aaaatacctc	ccatgcaa	gtcctaactc	tcttcattaa	tcaatatcta	180
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<210> 29

<211> 2630

<212> DNA

<213> Homo sapiens

<400> 29

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tatctgctgt	tgtgtgcttt	tagttgttgg	ataactgagg	tctccaaat	ggttcaacat	1680
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<210> 30  
 <211> 1052  
 <212> DNA  
 <213> Homo sapiens

<400> 30						
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cctggcggtg	atgtgggccc	ttaaatcact	cttctgtctc	acccccctcc	cagtgatctg	180
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cgtccctcc	agctgcaggc	acatagcccc	agctcacagc	tcgcctgagt	cgacgccggc	360
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<210> 31  
 <211> 1811  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1804)..(1804)  
 <223> n equals a,t,g, or c

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gtctagatca gcaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1800
aaanaaaaaa a 1811

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<210> 32
<211> 530
<212> DNA
<213> Homo sapiens

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```

<220>
<221> misc_feature
<222> (308)..(308)
<223> n equals a,t,g, or c

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ctccctctgc gcaggccctt acttgtgaag gagctagcc gcactcgggt ggctgtcctg 180
gggcacccat gttgtgtgtt ttggttttgt ttattttgta tctgcctggg ttttccaagt 240
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gagcgagggt ctgtctcaaa aaaaagaaaa aaaaaaaaaa aaaactcgag 530

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```

<210> 33
<211> 471
<212> DNA
<213> Homo sapiens

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<400> 33
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ggagcccaca ctccctcagc cctcccacac gtcctctca actcctagct gggcttcgct 420
gacttgaacc tggccgagtt tgcgggctcg gggctccaag gtgcgctgct g 471

```

```

<210> 34
<211> 761
<212> DNA
<213> Homo sapiens

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```

<400> 34
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cctccacaga accagggacg ccggacaagg aggacactgc cttcaggacc cttctgcgga 240
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gtttgtttct ctgagccaag cttaaagtga taatgaagcc aagctggcaa ttaccttcct 360
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gcgacacccat tggctcttatt gatgggtggca gtgccaggg tgggtgtgggg gtaatagcat 480
gagtgggtgc tgggatgctg ttagtgatcc tgctagggcc aggttagctt ggaggggaga 540
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cccaccctca gtgaargggg cagggtcag arccttcctg agaactggct ttattgcatt 720
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<210> 35
<211> 1550
<212> DNA
<213> Homo sapiens

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<400> 35
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<210> 36  
 <211> 2187  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (347)..(347)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2097)..(2097)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2187)..(2187)  
 <223> n equals a,t,g, or c

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<210> 37  
 <211> 4115  
 <212> DNA  
 <213> Homo sapiens

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<210> 38  
 <211> 2196  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1921)..(1921)  
 <223> n equals a,t,g, or c

<400> 38						
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gagatgttat	taaacaactg	attgaagccc	acgagcaggg	gaaagacatc	gatctaaata	180
aggtgaaaac	caagacagct	gccaaatatg	gcctttctgc	ccagccccgc	ctggtgta	240
tcattgctgc	cgctccctcct	cagtatcgca	aggtcttgat	gccccagtta	aaggcgaaac	300
ccatcagaac	tgctagtggg	attgctgtcg	tggctgtgat	gtgcaaacc	cacagatgtc	360
cacacatcag	ttttacagga	aatatatgtg	tatactgccc	tgggtggacct	gattctgatt	420
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atagtgtgga	taaagtggag	tttattgtga	tgggtggaac	gtttatggcc	cttcagaag	600
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aagtgggtggc	ccatatgatg	cctgacctgc	caaacgtggg	actagaaaaga	gacattgaac	960
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aaaaaaaaaa	agggcggccg	ctctagagga	tccttcgagg	ggcccaagct	tacgcgtgca	2160
tgcgacgtca	tagctctctc	cctatagtg	gtcgta			2196

<210> 39  
 <211> 701  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (670)..(670)  
 <223> n equals a,t,g, or c

<400> 39						
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ctatgaatgt	tcatttttaag	accccttggt	gaaatgggac	agttggcagc	ggctctgatg	120
agcccgagaa	gaggcctgcc	cttgggtgcg	gagtcctcct	ccgcacgatg	ctcccacgcg	180
tccaacttgc	acccaagggg	ctttccctc	ttccaagtgg	actccttcaa	ggaagctgca	240
gctcggtcag	cagagaaggg	gcctgccgcc	agcgccctgg	aggaagagga	agaggaaccc	300
aagaggatgg	cttgtctccc	agcagccaca	ccggctttgt	gctcagccag	ttcatttgag	360
tttgcatggt	tctctgcact	atggattttg	agcattttaga	tttctttaat	caaaagcggt	420
ttagtgactc	cagcagaccc	actgtcccag	aaaagcctga	tcctgtagtt	tatgtagaat	480
gccacatctg	cgtcctcaag	acctgtttca	tccatttggg	aaaagatggt	gggaaaggcc	540
actttgctcg	caggggtgag	gggaaggata	gagaatctat	ttttaataaa	taacattcta	600
gaaagaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	660
aaaaaaaaaan	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a		701

<210> 40  
 <211> 525  
 <212> DNA  
 <213> Homo sapiens

<400> 40						
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agatcttgat	aatagtttaa	tatgatctgt	atttttaaaa	tactagaagg	ttacttaata	120
taccacattt	ccaagtccaa	acggtgatca	gagaacccca	aaataaaatt	ttggcactga	180
attcatagga	atacaattat	tttaaagcat	tagaaggaaa	gagaactcat	agtctgtgtt	240
actgtgctgg	gtgggcttag	gtttggggct	tgtttgatt	ttgttttacc	aatttagatt	300
cctttccaca	cttgctgct	accacaagta	aggattgagg	ttaaattgggt	tttcatcttt	360
tattgggatt	ggtgaacctt	ttaggattgg	taaactgctt	tctcttgggc	aagccaaact	420
atctctcact	aattgtttca	atagtgcccc	ctttgacctt	cctcttttcc	tttatctcaa	480



acattataaaaa aaaaaaaaaa aagggcggcc gctctagagg atccc

525

<210> 41  
<211> 1526  
<212> DNA  
<213> Homo sapiens

<400> 41  
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aacgtgtttg gggtagtggt gaggtagggg caatgttact ttttctccct gtagtttgga 120  
gtccattatg agctgctgct ttttcttctc atcttgtcat cttctgggga tgtttgaagg 180  
ctgagttcca acagaattca caaagggaat aaaacaggat tgagattttg aggtgtgcac 240  
aaggtggtaa gataaagggc atatgagctt caaaactaat gctgttgcat acatgaagcc 300  
ttttgttttt tgaggagcta tttttgttat tcttgtaacg ctccacctta catgccacat 360  
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taggccagc ccaagagagt gacacacagt gctggccctg agacatttcc acaaagtggg 540  
caactctgcc ttgcatccta aaactttttg ggcattctatt ttgaaaacta taggagcctt 600  
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gttgggtgaag ctggtgctgt gggggccact cactcgaatg acacctggag gcctgttcct 960  
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tgctcacact gagatgagcc tctcagggca ggacctctc ccaagccctg cacaccacc 1200  
cctgcagccc ttttggctcc ctttttccct gtgcctcagc actcctttcc tggttgcaga 1260  
taacgaacta aggttgctca aagggcagat ctgccttctc catgtttctg tcctggcaaa 1320  
cagggtcgtc ttaaaattat gcgctaattc tgtatgggag cactcaaaag gcattactta 1380  
gagattgaaa tttcaaaacta tctctagttt ttcaatggaa atatatcagc tagggaaaaa 1440  
ccatcaagct cattattatt ttttgatctt cagttgtatt tttgtgaata ttttaataca 1500  
tctttttcaa tttcttaaaa aaaaaa 1526

<210> 42  
<211> 1875  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (334)..(334)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (966)..(966)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (1304)..(1304)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature

<222> (1319)..(1319)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1329)..(1329)  
 <223> n equals a,t,g, or c

<400> 42

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ttaagtgggt	tcatgagatg	gaatctactg	ctgggtgaagt	tgctgtgaat	attggtgaaa	180
tgacagcaaa	ggattttaga	tattacataa	acttgggttg	gcagagtttg	agaggattga	240
ctccaatttt	gaaagaagtt	ctgctgcggg	taaaatgctg	tcacacagca	tcacatgcta	300
cagagaaatc	tttcatgaag	agtcaatcaa	tgangacamm	cttcattggt	gtcttatttc	360
aataaattgg	cacagccact	ctagccttca	gcaaccactg	atcactcagt	tcagagcca	420
tcaacatcaa	gacaagaccc	tctaccagca	aaatgattac	aacttgctga	agggctcagg	480
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tagactagag	tacagtatag	tgtaaaccta	ccttttatgt	acactgggga	acaaaaaat	600
tgtgtaaact	gctttattgt	gatacttgct	ttattgtggt	agtctggaac	agatcctgca	660
gtatccccaa	ggtatgcctg	tatctcagta	tagtgcgtgat	cataggtctt	gcttttcttt	720
agattcactg	ttgggtgttat	catccatgaa	tttcaccttc	ctgtgtacaa	acatctctta	780
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cagggnaagg	gcacgggata	atttcccttg	ccattttatt	ttgaaaccag	ctttgttggtg	1020
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agaagctctc	tgtgttctct	tcagtcacgt	tccccacccc	caactcctac	ccaaggtaac	1800
ctctcatcct	gaagcttaca	tggaagattt	gggcattttt	attaaaaaaa	aaaaaaaaaa	1860
aaaaaaaaact	cgtag					1875

<210> 43  
 <211> 1047  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (34)..(34)  
 <223> n equals a,t,g, or c

<400> 43

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gaagaaatta	cccctgtggt	ctccattgcc	tacaaagtcc	tggaagtttt	ccccaaaggc	180
cgctgggtgc	tcataacctg	ctgtgcaccc	cagccaccac	cgcccatcac	ctattccctc	240

tgtggaacca	agaacatcaa	ggtggccaag	aaggtggtga	agaccacga	gccggcctcc	300
ttcaacctca	acgtcacact	caagtccagt	ccagacctgc	tcacctactt	ctgccgggcg	360
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agcagccatg	tagaatgaac	ygtccagaga	gccaaagcac	gcagaggact	gcaggccatc	960
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acaaaaaaaa	aaaaaaaaaa	aactcga				1047

<210> 44  
 <211> 924  
 <212> DNA  
 <213> Homo sapiens

<400> 44						
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cacacctctc	tcctgtgggt	tttcgctggt	gattgagttc	tgaggcattt	gctgcattga	120
ctgtttgtagc	tttaactcgt	gtgcacgtgt	gacacataaa	gccccaaagag	aagggtctgcc	180
tggctcagat	gcacttccat	gctgattata	tgcattgggtg	ttgaaagcag	tgctggctga	240
gcagcgatcc	cagtgcagtt	tgactttatt	ctttgctcaa	ataggtgaag	gcccacggtc	300
ccggcctcga	aggtggtctc	gtgggcaagc	ctgccagatt	caccatcgat	accaaaggga	360
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ccgacaatgg	tgatgggacc	tgctccgtct	cttaccttcc	cacaaaaccc	ggggagtact	480
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gcacctacgc	ggtgacctac	gtgcccctga	cggccggcat	gtacacgttg	acatgaagt	780
atggtggcga	actcgtgcc	cacttccccg	ccggggtcaa	ggtggagccc	gccgtggaca	840
ccagcaggat	caaagtcttt	ggaccaggaa	tagaagggaa	aggtgggttt	catttaaaaa	900
aaaaaaaaaa	aaaaaaaaaa	aaaa				924

<210> 45  
 <211> 1304  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (41)..(41)  
 <223> n equals a,t,g, or c

<400> 45						
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aggggtggggg	gctgggacca	tggcccgag	aggcactgcc	acagctgtga	gggcaagat	120
gctgtccccc	catccaaaac	ccgtgcgcca	ctgcagtgag	tgttgagggc	acctctcctc	180
ccctcttaca	cctactcaga	tgaggcagca	gcagacctat	ctcgcgccgg	gggttttgtt	240
ctgttgccgc	ctaactttct	catcctcggt	ctctggaaag	tcaggctgag	aaatcctttc	300
ccaggccagg	ccgctgggt	acactggatg	gttctgaagc	tggccattg	aaagagcctc	360
ttaaggcagc	tgggacagag	gcctgggtgg	cctgctgggc	agcccaactg	ctggggggaga	420
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ggcctcctta	gggagacagg	tgaccctggg	tgccaccct	gccccgtgg	tgccccgggt	540
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cctcagacac	agctgagtcc	gacaaccatt	gggggtgggg	tgcatacagc	tccggagtgg	900
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tcattcgctg	ccattggctt	ctcagatgta	tttcaaggac	taaagtgggc	tctaagatct	1020
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gcggatgagt	tgaggtcggg	agtttgagtc	cccgctctcta	ctaaaaatac	aaaattagcc	1140
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ttgaacctgg	gaggcagagg	ttgcagtgag	ccaagattgt	gccactgcac	tccagcctga	1260
gcaacaaaag	caaaactcta	tctttaaaaa	aaaaaaaaaa	aaaa		1304

<210> 46  
 <211> 939  
 <212> DNA  
 <213> Homo sapiens

<400> 46						
ccacgcgtcc	gaaacgaagc	tgaattcccc	ttcacggacc	tgaagcctaa	ggatgctggg	60
aggtactttt	gtgcctacaa	gacaacagcc	tcccatgagt	ggtcagaaa	cagtgaacac	120
ttgcagctgg	tggtcacaga	taaacacgat	gaacttgaag	ctccctcaat	gaaaacagac	180
accagaacca	tctttgtcgc	catcttcagc	tgcatactca	tccttctcct	cttccctctca	240
gtcttcatca	tctacagatg	cagccagcac	ggtgagctca	gagaacgcaa	agggagagag	300
ggggagtga	ggattttctc	ggtaggtaaa	ttcctcctgc	attttttgta	ggttcatcat	360
ctgaggaatc	caccaagagg	tagatgcttg	gcatagcta	tgctccactt	agttcccatg	420
tcattctcaa	gggaacccat	tggcacatcc	gggattggca	ccctgagccc	ccaccccagc	480
ccattctgtg	accttctctc	tctcccttct	tctcccttcc	tctccctaca	ttgccctcac	540
cctctccctg	aaatcttcac	atcccatcct	ttcacgtgtg	tctctctctt	tcagaaccag	600
ccattccaaa	cttccagagc	aggaggctgc	cgaggcagat	ttatccaata	tggaaagggt	660
atctctctcg	acggcagacc	cccaaggagt	gacctatgct	gagctaagca	ccagcgcctt	720
gtctgaggca	gcttcagaca	ccaccagga	gccccagga	tctcatgaat	atgcggcact	780
gaaagtgtag	caagaagaca	gccctggcca	ctaaagagg	ggggatcgtg	ctggccaagg	840
ttatcgga	tctggagatg	cagatactgt	gtttccttgc	tcttcgtcca	tatcaataaa	900
attaagtttc	tcgtcttaaa	aagaaaaaaa	aaaaaaaaaa			939

<210> 47  
 <211> 871  
 <212> DNA  
 <213> Homo sapiens

<400> 47						
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ggctgaaaac	ggagagggaa	tgggagactt	gatatttaag	cagcttgaat	ggtttttctt	180
ttctttattt	ttaaagaaat	gcacttgcct	atgaactgt	ctctccagt	aaatgattac	240
tcctccatta	ctctattgat	acaatattgt	gcatagctag	gttgattttc	tatacagtag	300
cttgaaattg	attaacttat	actgtagggt	ttatgtattc	ctatgacaaa	aaaaattaa	360
tcttcaaatt	ttttaagggt	tttttttttt	taatttaatt	ttcccttttg	ggggtaaagt	420
ttgctctacc	aaatagtgat	tgtaacaaat	tgatctgttt	tggatgttgc	tatagtgaca	480
tgcatgtata	tattttgttt	ttaaaagggg	gggagcaaaa	gaaacaccag	tgtagcttta	540
atcttaaatg	ctgggtgttt	tcatggtgaa	attataacta	ttacagtgtt	tggaaaacaa	600
caaatatgtt	ctctgaatga	gcctttgtgc	tttttgtcat	gttatgcagt	gaactatttt	660
taaggtctaa	tcagtgatta	tttttccagc	tccgtgtttc	tctaagggaat	tattttcacac	720
acggaccatc	tttagcagtt	tcctcagtg	tggaaatatca	tgaatgtgag	tcattatgta	780

gctgtcgtac	attgagcaaa	taaaacttaca	gatctgaaaa	aaaaaaaaaa	aaaaaaaaaa	840
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a			871

<210> 48  
 <211> 990  
 <212> DNA  
 <213> Homo sapiens

<400> 48						
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tcacttgctt	cactgatgaa	tgtaataatt	gttctcgttc	atgccctttg	cccctgggtg	180
cggggctgtc	cacactgggg	accattgggtg	ccccatgat	tattagctcc	ctgaagcctg	240
gtgggtcgtc	agggcttctg	tccgggtgtt	aaagacccat	cccagacaag	cccaaaccac	300
ctcagtttga	agagacatag	agggacaggg	agacggggcc	tcagagggat	ccagcctcat	360
ccagcctccc	ggcaacctca	ggagagcagg	ccagatgggg	cctcagaggg	atccagcctc	420
atccagcctc	ccggcaacct	caggctgggt	cccttccagt	gccgactcca	cagccctgct	480
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gggcctgtgc	tgtgggccag	ccacttagtg	cacttcctga	gctcagaaac	acgcagtggg	600
tcagcactga	gtcatgcttg	cttctctacg	cactgatttg	ttctattcca	gttttcacgt	660
acatcgtttt	ggtgacatct	ctgcgttatt	atttatttat	atggagtgtg	ttttctcaa	720
aactttctta	cgagggaatg	cacctgctca	ttacagctgc	tgtctgtgta	ttcttcacgg	780
caatggatca	aaccagactc	acacagtctt	agactaagct	gaacactgga	aaaataatac	840
atgcttaaaag	tctgctgtta	ttctaaaatg	aaagatatga	attcaacaaa	gttgatggat	900
aactttcttt	gactgctcta	cctgaattta	gactaagcag	taaatagttt	aataaaaagat	960
cactttaata	taaaaaaaaa	aaaaaaaaaa				990

<210> 49  
 <211> 1275  
 <212> DNA  
 <213> Homo sapiens

<400> 49						
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aagtacgtta	tgactgctaa	tgacttttaa	agcaaactg	ttaacgatct	ttctatggta	180
aaaactgtta	tttggggaca	tcaccagatg	atgtggacat	tcttgcaggt	attttggcat	240
accagggcaa	gctgtcattg	ggtatattc	cagttaacct	ctggagatga	tcgtaacagt	300
ttacagggcc	tttccatttg	ggatggatat	atcaagaggg	agacaaactg	gtccaaatca	360
ccagaaagaa	aatctcacag	caccgacttg	gcatctgtgt	taaaaaatag	caactatatt	420
taaaataaac	tgtacaacat	aaaaaattta	aattaaaaaa	tgcattaagc	agttgcctt	480
tagaaatgtg	aagacatttt	aaaacactac	aagataatga	gcaagtctca	cctacataat	540
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taagatctgc	ttggttcaga	tactgtccag	ccacagcagc	tccctctgct	gtagagagca	660
gcatattcag	ctttgccttt	ttatttcaga	tactgaatat	cctttggcaa	tttcagatat	720
cacagcaaaa	aaaaaaaaag	ttccaagtgt	ttttggcaat	catattgggtg	atagtgtttt	780
tgttactctt	agaatgttta	tgggtggaggt	gggaggatgg	cttgagccta	agagttcaag	840
aacagcctgg	gcaacagttg	agtgactttg	tctctacaaa	aattaaaaaa	aattagctgg	900
gtgtgttggg	gtgcacccgt	agtctctggc	agctactcca	gaggctgagg	tggatcactt	960
gagcccagga	gtttgagact	gcagcaaaac	atgattgtgc	cactgcactc	cagcctgggg	1020
aacagagacc	gtgtctcaaa	aaaaattgca	catataacag	ataaagtaat	gataaagtaa	1080
atacgtaaag	taaataagta	attatgggac	attctaattc	ctcatcccc	atgtctttta	1140
gaattaaaaa	ttctcagtgt	agaaggaaga	gtgtaataca	gaattgggtta	aataaaaacc	1200
tataagcttt	gaatttgaat	tggatatata	attggtaaaa	taaaaaccct	atgagctttg	1260
aaaaaaaaaa	aaaaaa					1275

<210> 50

<211> 779  
 <212> DNA  
 <213> Homo sapiens

<400> 50  
 ggcacgagat agaataatgc agtggatttc tatcatgcta atttattttg ctttggagca 60  
 ggtacctttc ctctatggca ttatttttctt gcattttctca taaaggggag gatgcatccc 120  
 aactgaatgg ctactggca tgtcttttat gtgttcagtt gccattccta gctttggaaa 180  
 gtttctatct gtccatgtgt atacaagtca atgccccatt tttgtttttc ttttaaccga 240  
 ggtgtagata agggaaaggg acattttttaa ttacttaata accggaaatg cagatgtgta 300  
 aggagaatga gaggaatgag ttaaagtggg tatgcatttt tcatagatg agccattaca 360  
 gcaaggaatt ttacagttga cttctctgaa cctagcttta ccacagtgat taaatcctat 420  
 ttagaaaggg gaatctgatt taaatgtgtg attccttgta tttgtctcta tcacaaagat 480  
 atattaaagg aggtatgccca ttaatgaaat ccactgtcct gagtattatc tttcctcctg 540  
 ttgtactttc tcagagacta tggcagaata tctggatcct ctttggattt tgtacacata 600  
 ttgtagtga atgtgtccta catctgaaat tgcattgggac tcatgcccag caatctgggt 660  
 ctaggccttt gacacctgat aatatgagag caattggcca gccaatagcc ataagcccag 720  
 aggatttttag agcttcatgt gtggccttta agagcaggt tgaaaaaaaa aaaaaaaaaa 779

<210> 51  
 <211> 1316  
 <212> DNA  
 <213> Homo sapiens

<400> 51  
 aggaattcgg cactgagcttt gactccccctc ctttctaaca gaatgttgcc accactgctt 60  
 gagtgggctg tgtttgttcc tctgtcccag cttctgttgt agaaaataac attgttaggg 120  
 gaactcaggc tagtgtcagc gtcttgggtt ggggagaaaa aattaaatgt ttcggttttt 180  
 gtttcttttg ctgttttggt ttaccttgtt tactttatca tattgacttt aggggtcaag 240  
 gcaacatcag aagaagtcag atatgtatag tgacattcca ggggtgggga aggtgtaggg 300  
 atccagggtt ctcccggtct tggccacagg cacaatcat accttcatcg ttccagattc 360  
 ctggggagaa aactgagaag atcgttacct gccagcctca tacagagcaa aagctctgtc 420  
 ctcagggccca agttctaacc actgctctgt agaccttctc tgcaatcaag tggcctctaa 480  
 ggagcatgcc tgaggacaaa taactgtgcc tcagtttcct cacctgcaga tggggttatc 540  
 aaataacacg aagtgtgcag cctgacctgt agggaggtgtg agtgtgttcc caaactaaag 600  
 cccaggctg ccatcattta caggcttggc ttgccccggg cccctcacc cctgttctga 660  
 ccattcccaag tctctctggg acaggcaagt cactctgggt ctttaataag cttggaggtg 720  
 ttgggaagct tcagtgttac tggccaggcc aggggaatc aggccaccag ggctccatct 780  
 ctatcctggg atagcattca cccactcct cctcagggt gaccccgact catggcccct 840  
 ttaaaccctg aaggccgatt ctgccccttc ctctgttata tgcacaaactg aggaaggagg 900  
 taaaagtggg ctcttaggtg agcccaaagt ctcttgagag ataagggaaa agaattggac 960  
 ttagagttta aaaaagttgc tcttggccgg gcacagtggc tcacgcctat aatcccagca 1020  
 ctttgggagg ctgaggcagg aggcagatca cctgacctca cctgaccaa catggagaaa 1080  
 ccctatctct actaaaaata gaaaaattag ctgggctgtg tggtagtgct ctgtaatcgc 1140  
 agctactcag gaggctgagg caggagaac gcttgaaccc aggaggtgga ggttgcaatg 1200  
 agccaaaatc gcgccattgc actccagcct gagtgacaga gcgagactcc gtctcaaaaa 1260  
 aaaaaaaaaa aaaaaaaact cgaggggggg cccggtaccc aattcgccct atagtg 1316

<210> 52  
 <211> 528  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (106)..(106)  
 <223> n equals a,t,g, or c

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<400> 52
gaattcggca cgagctcgtg ccgagagtgc agagctccag gaaagggat cagagctgca 60
gccagctctg ccctctaccc tagggaggcc agaaagacac aaacancctc cgggccttta 120
cgctggactc tggcttgga ggctccaggc agggctcctc gggaagttac tctagaaaac 180
gaagggagga ggagcacaag atcctcagca acgaacacct gcacttagaa aaagtggaca 240
gcttctgcca accacaccct acccatggta ctgtatgcta ttaactcctg gaaacgcccc 300
gtaaatgcga gttgtttttg ttttgtgtg ttgagatggg ccttggtggt tctctgtat 360
cagagcacat ttcttgaat tactattgtt atttttattg tcatgactgc ccctgagctc 420
tggtgagaaa agctgaattt acaaggaaag ggatgaagtt aatatttgca tcacataatt 480
atatcattac tgtgtaaaaa aaaaaaaaaa aaactcgagg ggggggcc 528

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<210> 53
<211> 778
<212> DNA
<213> Homo sapiens

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<400> 53
ggcacgagat ttcttgaatg aatttcacat ttgtaactat gattttggca gaatagaaga 60
ttggctcatc agtgaagcgc agtatcttag ctctagattc tattttcatg catcacagaa 120
gtgctatacg gttaggtctg tttgtgcctc agtcaagaac taagaaatag tatgaattgt 180
aagtcaagat gggcaactca gatggagcag cttagtctca cagtttgctt gtctatttat 240
tttatttagt gccaaatgta ttccatttta aaagtaagcc agagtgaagc aaggcatata 300
cacactttct cacaaaaactt cctaaacaga tttggggggt taatatgtcc aactcctcat 360
gaaatatatt caatccactt aaatatttc catcttttta acataaaatg taaagcttag 420
caccatcat taatttatgt ctctgtttta tccagtgggt aaaaaaggat tctgcctctt 480
tagtcctcac tgttaataaa aacccaatca tagtaagtga ttaactagca aaaagtaaag 540
ctatttatag caaatttcta gatcattaga aaagcactgg tagttgtaca atactagtgt 600
tgactttgaa cttctttaac gagatcatga attcttttcc cttagccaaa acatgaaata 660
tttaacctag ttgtctctaa aagttttgta atcatgagtt agatatatgt catctcctat 720
tcattgcttt tatgtgatca ataaatcttt tacaaaccca aaaaaaaaaa aaaaaaaa 778

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<210> 54
<211> 1302
<212> DNA
<213> Homo sapiens

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<400> 54
ggcacgaggt ctgtttgatt tttaaaagga aaggatttgt ttcagattat acaagaataa 60
aagtattata gacccaaggg acttcttatg aggtcaaatt cagatatatta tatgaatatg 120
aaataccatg gtccctagta gtcagttgaa gtggcaatgt ctaaacagaa atgaaaaaa 180
ctaagtctag cagggttaaaa tcaatcaaaa tgtttaaaaa ttgattctgt cctcagcatg 240
ttacttcctc agctctgata atttactggt cttgagtatt ttgagaattt gatgttgaac 300
gttataaagt caaagaactg cttgtttaga tgaggtttat ttttattttt gatattattc 360
attcttgtca cacatcaaga agaaaacact agagtgtgc tggaattcca aatctgaaga 420
attctaacga ctgcattctt tgttattaaa aagggcacaa tccttccttt ttatttggca 480
gtttaatttc agtaggaagc atgtcacatg tgcactgttg gttagaatta tgcactgtgc 540
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actgtgaacc tcaaaaacaaa tgggtatttt tgggttttga ggatagatgt tactccttaa 660
agtttgtatt tggggcatga aaaactactg aaagaagaaa agtgctacag atactacatt 720
tcaaagagtt ggcatttttc ctttggccac tcaagcagca tttgatgtat ctaaagaaac 780
aaagtcattg tttattttta aaaattatat gcagttgtac aagatactac attccattga 840
aatgttggct atgtcctaac caggcaacca gataacaaaa acattttgag tcttttatct 900
aggtagtctt aattattcag ctacttagtt taacaaagga aaatatcctg acttctctca 960
tttcatttgt agacttttca ttgtataggc acaaccaaag agtagactg gtttaaaact 1020
ccagaaggaa aaaaagtatc ccacacagtg gatgttgttt ctaagaatgc tacaaaatcc 1080
tgacatctca gacatctcaa tgttaaagga agaaaaaaaa taccttttca tttcaaagaa 1140

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ctaataatact	ttgatattgt	gtaaacctta	ctcaagttta	ttgtcaagct	ttaaactgcct	1200
ttttagaact	ttttaaaatt	tcgagcccac	aaatctattg	tattagttgc	cttctataac	1260
aataaatctt	cactgagcaa	aaaaaaaaaa	aaaaaaaaaa	aa		1302

<210> 55  
 <211> 1277  
 <212> DNA  
 <213> Homo sapiens

<400> 55						
ggcacgagct	ttaattcaaa	aatgtttgta	gttaacatta	ttttgtttc	ttcagttggt	60
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aaagtaaaaa	agaactgaaa	atacccaaaa	agtaatgttt	tatagaaagt	ctcccattga	180
tttaagaagt	tatctattag	attgatatca	gaagtttcat	atgagtattt	ggcttatgca	240
tttctgtctt	ttggttttag	gcaaaaaggat	gtcaattctt	gatgttaaac	tttaggattc	300
ttaaagtata	atgaagactg	gaatgggctg	tggggaacat	aatagtggat	gacagtgact	360
taggattcaa	ttcagaaaa	agttgtgaat	ctgttttatt	ttggttacag	cctactcata	420
cgatttattt	catattttct	aagtgtattt	ttgttcttct	gtatgtttc	ttggcccttg	480
agtcttctct	gtctttaatc	tttctctcct	ctcctactat	ttatagccag	tctcatatta	540
atttcctttc	tctagggcct	ttaaccactt	gggtgctcatt	tcagaccagt	agtagtagca	600
acaaagtttc	gcaaatacaa	tgtatcttca	ctcctgtctg	atttaagaca	cagctatctc	660
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ctcactaagt	ctagttctag	cctttgtaga	atgggtcaact	tctttcatca	aggctttggg	780
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atggattttt	tcttcaaact	tgtttattta	atataagtt	ttcatttttg	gcagcatatg	900
gatgatttta	tttttaataa	tcatatctct	tagtaaaact	atgggttaa	aatatttaa	960
tataagaagc	taaaattggc	caggtgtggg	ggctcacgcc	tgtaatccca	gcactttggg	1020
aggctgaggc	aggcagatca	cctgagggtc	ggagttcaa	atcagccctg	ccaacgtggg	1080
gaaaccctgt	ctttactaaa	aatacaaaaa	ttagctgggc	gtgggtggcg	acgcctgtag	1140
tcccagctac	ttggggaggc	gaggcagtag	aatcacttca	acccaggagg	tggaggttgc	1200
agtgagcaaa	gatcatgcta	ctgccctcca	gcttggatga	cagagcgaga	ctccatctta	1260
aaaaaaaaaa	aaaaaaa					1277

<210> 56  
 <211> 1058  
 <212> DNA  
 <213> Homo sapiens

<400> 56						
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ttgatttgag	agtttagtgc	gtttccattg	ttattaagaa	gtaaggatat	gttctgccat	180
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gttcatcttt	tagtctttct	ccttaagatc	agagtatttt	atatatcaca	tttacagtgt	600
tataatatgc	tgcatttttt	tgtgtactta	ctattaccag	tgagtttttg	accttcagtt	660
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tccagtcctg	ggtgacagag	cgagacgcca	tctcaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1020
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	gggcggcc			1058



<210> 57  
 <211> 989  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (338)..(338)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (352)..(352)  
 <223> n equals a,t,g, or c

<400> 57  
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 gagcctcagg aggaaggggtg cgggttcccc tggctgcaga cgtccctgag gctgccctgc 180  
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 agcaccctag aaccacaccc tctgggtccct gaaaaggggt tcagtctca gggttccctg 540  
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 aggggcaacg tggaggaagg gccagggatg catgggattt taattgtttc atcacacctt 840  
 ccccggtggc aagaaacagt cagtctctt cagggtgtct ctggatttct ggtgatggac 900  
 agagaaatct ttttacagtt tcaaattatg ttcaacaaataaaaaattgca ttttttattt 960  
 tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa 989

<210> 58  
 <211> 1919  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1903)..(1903)  
 <223> n equals a,t,g, or c

<400> 58  
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 agccaagaat aaaggcaata aatattttta agcaggaaaa tatgaacaag ctattcagtg 180  
 ctatactgag gctattagct tgtgccctac agagaaagt gttgaccttt ctacatttta 240  
 tcaaaacaga gctgctgcct ttgaacagtt gcaaaaatgg aaagaagtgg cacaagactg 300  
 tacaaaagct gttgaactta atcccaaata tgtgaaagct ctcttttagac gtgcaaaagc 360  
 ccatgagaag ctagacaata agaaggaatg tttagaagat gtcactgctg tgtgtatatt 420  
 agaagggttc caaaatcaac aaagcatgct gttagccgat aaagttctta aactccttgg 480  
 aaaagagaaa gccaaagaaa aatataagaa tcgtgaacct ctgatgccat ctccacagtt 540  
 tatcaaatct tacttcagtt ctttcacgga tgatatcatt tcccagccca tgcttaaagg 600  
 agagaaatct gatgaagata aagacaagga agggagggt ttagaagtga aagaaaattc 660

tggatactta	aaggccaaac	agtatatgga	agaagaaaa	tacgataaaa	tcataagtga	720
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 <211> 752  
 <212> DNA  
 <213> Homo sapiens

<400> 59						
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cactgcagac	ggtgtctcat	taaagcagta	gtcccttga	accacacaagt	taaaacgccca	300
gacttttatt	tatttgttta	ttttttctga	gttcttattg	gcagacttca	gaatgaggta	360
cctgaggaaa	tatagaaacc	tctgccttaa	ggttgatttt	actaaatgct	ctattttctg	420
gtgcagttat	tgactgtctt	atctcttttg	tcaggaaatgt	cttttttaat	tagaagacag	480
gaagaaaaca	aaaaccagac	tgtgtcccac	aatcagaaac	ctccgtttgg	gcagaggggc	540
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<210> 60  
 <211> 640  
 <212> DNA  
 <213> Homo sapiens

<400> 60						
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tcagaggaaa	aaaatcacct	tttaatatgt	ctagttagaa	aatgtcatga	acagtgtatc	180
ttagaaatat	aatattctac	ttatttacac	atgtcaaaat	ttgtgtctct	tccagtgttc	240
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gtctcatcac	attctagagc	gcttggtatg	ccatattgaa	gaactaaaaa	gagagagtga	360
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aataaaaaata	aacaccaaag	agttactgtc	atctgaagta	gcagctcttt	aaaaacatga	480
agagataaaa	ttataaaaat	gatacatcta	aagcagtggg	gaagaagct	gaaaaactga	540

tacttttgat	aggcattttc	tctgcactgg	tttgtttaaa	ggacttcttc	cagcaataag	600
ttgaaagaat	aaaccacttt	gctagaaaaa	aaaaaaaaaa			640

<210> 61  
 <211> 443  
 <212> DNA  
 <213> Homo sapiens

<400> 61						
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gccaggctct	gcctgtgttt	ttctcaacac	tacttttctg	atatgagggc	agcacctgcc	180
tctgaatggg	aaatcatgca	actactcaga	atgtgtcctc	ctcatbaat	gctcatctgt	240
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ttgggcagat	cagtgtctct	agtcctaccc	agttttaaa	ttcatggtaa	gatttgacct	360
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aaaaaaaaa	aaaaaaaaa	aaa				443

<210> 62  
 <211> 1064  
 <212> DNA  
 <213> Homo sapiens

<400> 62						
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ggcagcaggt	gaggcatgag	gatgggcagt	tctcagaagt	tttccctgaac	ctacaggttt	180
atgttaattt	ttttatgtat	aatttgtctt	ccttgtttat	gatctcattt	ctagtctgcc	240
atgtaacccc	ttctcaaac	ttaaaaggac	ctcccttgag	ctggagctaa	cgagaccatt	300
tcttgtctgc	ttacaatttt	aaaaaaaaag	ctatttgcac	gtaatttttc	tcattatgat	360
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taacttgggg	atgccatggg	gaaagggtga	ratthttcttg	gcactggatt	ctgcaacact	1020
tgattaatct	taatttctatg	gcaaaaaaaa	aaaaaaaaa	aaaa		1064

<210> 63  
 <211> 1323  
 <212> DNA  
 <213> Homo sapiens

<400> 63						
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acgactccct	ccccaaaccc	ttgggacctc	agccagtccc	aaggctgccc	tgacaatcag	720
gcaggctccc	caccgtgagg	ccaagcctcc	tctgccactg	ccagcatggc	ccaagggagg	780
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maaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaactc	1320
gag						1323

<210> 64  
 <211> 2288  
 <212> DNA  
 <213> Homo sapiens

<400> 64						
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gaggccaagg	cccaggactc	agacaagatc	tgcgtgggtca	tgcacctgga	cgagacctg	240
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aaaaattt						2288

<210> 65  
 <211> 2710  
 <212> DNA  
 <213> Homo sapiens

<400> 65						
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aaaaaaaaaa						2710

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 <211> 1442  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (126)..(126)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (148)..(148)  
 <223> n equals a,t,g, or c

<400> 66  
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 tgagtgtcca gccccaatg caaacagcaa cccagggctc tgaaactact ttttttctta 1380  
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 aa 1442

<210> 67  
 <211> 1103  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
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 ctctgttgct gccaccaacc gcataaggcg agctgcaaag ccatgccatc tgcaggctcc 180  
 aatgtaccat agatgactcc tctcttctc cctcctccag cctggcttgg agcagctaga 240  
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 gtgtgtgcct ttgctgaaac cagccctagg tcaggctcctg ctggacagaa attgctgggt 480

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ccccaccac	agtggtgccc	actactccct	gcccagtagt	cccaggttgt	ctctgcaaca	660
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gggtgtgtaa	ccccaatatc	ccccccaaag	caccctccct	ccccagagc	aggcagtgt	1020
gcacccaata	gtgccacaa	cctgaccag	ccatgggtgt	tgctgcacta	gatagcacc	1080
gaaacctgcc	cccccaacc	cac				1103

<210> 68  
 <211> 1047  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n equals a,t,g, or c

<400> 68						
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gaaacaaaa	caaaaacaaa	agtgggtata	aatatgactg	caaaactgct	ctgagctgct	180
cctctctgcc	tatgcggtag	ccctgctctg	caggagcggg	cacagagcag	taatactggc	240
tctctaataa	agctgttttc	ttctgcctcc	ggtttgccct	tgaattcttt	cttgacaaa	300
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tatcaactat	ggctcaaaa	gcagggtcaa	ggcagcttt	caagtatatt	tgtgtcacag	420
aaactccac	tgtaacatca	aaaaatgaat	gattttttca	attcccttta	ttagggtttc	480
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ccccacctgt	ccccatcttc	atcttcaccc	agagcttccc	atctccccc	ctcccttatc	900
gccaatttct	gtctgcactt	tatccacgat	attcccatgt	tttctgctct	tactagaaac	960
attattttac	ccagcactgc	atttttaaac	tgaagaaga	tggtgattat	tatgccctta	1020
tcgaaatcca	ttacttgaaa	agctcga				1047

<210> 69  
 <211> 1048  
 <212> DNA  
 <213> Homo sapiens

<400> 69						
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ccttgcaaaa	taggtagcgt	attccagtgg	agaactgag	gcacaaagag	gtgaaagacc	120
tttctgtca	cagttaggaa	agtggcagaa	gccgtatttg	aaccccagca	ggtctccctc	180
tgaagtccac	acacgtcagc	gcctctgtgt	tgtctctttg	ccagcacagg	gctccctgga	240
gccagagat	gggggtggtg	acttgaaggg	gttggaagc	ctgggctcct	ccagcgaaaa	300
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gcagccaaag	cgctcatctc	actgtggcct	gtctctgcct	gcggccaatg	ggaaacctcc	480
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gccatctcac	catgctactt	ctcagggggt	tactatgagt	gtctctcatg	tccccagacc	900
cagattacag	gtttggagga	acacacagcc	caccttccca	atatcgcagg	caacagttcc	960
accaaagtcc	ctgcatggca	tcacagggag	cctagttgcc	cactgctcta	ctgctgagct	1020
caatgccacc	cagcccgggc	tctctcga				1048

<210> 70  
 <211> 825  
 <212> DNA  
 <213> Homo sapiens

<400> 70						
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cctggcctgc	ggtgacagcc	gtcagatggg	gaggggcccc	aggcgactgc	cccagcagca	120
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ttgacaacat	gcagtcccca	cggggtgcc	taatgacaaa	atgacatcat	gccacctgca	240
aaaaaagtaa	aaatgatcag	aggcgagctt	gtcagagaag	ctttgaacta	ggtgactgca	300
tgaaacatct	cagaggcgga	agagtgcctc	cccccccccg	ggactcccac	ctgggtgccct	360
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gtggcacctg	tcgtgaacca	ggccagagtc	tacgcaatct	ggggtgtgag	ctgagtggca	660
cctgtcgtga	acgtgcatgc	acatgggcat	tttgtcagtc	tgcaccgggtg	aataaatgtc	720
gctgcatttg	ccagctgagt	gtcaccagggt	tccagggtccc	attacacatc	aggaattgtg	780
tccgactctt	ctggatccgc	tgattggacc	tgagggatcc	ctgac		825

<210> 71  
 <211> 621  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (616)..(616)  
 <223> n equals a,t,g, or c

<400> 71						
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tttggtatgc	ctgatacatt	tcataataat	tttaaaaagg	acaagactac	tgcagagaaa	180
tgcatagagt	gagctctgtt	tgggttttta	aaatgattcc	tacatctatg	cttgcatgtg	240
taagcaccag	ccctggaaaa	cattgcaagg	gattcttagt	aggcccagc	tttgggaaag	300
ggccaagggg	gctggggagt	tgattaggag	gggatacatg	ctttttcctg	ctgccttttg	360
aattttgtac	cacacgtagt	attacttatt	aattaaaaaa	taatctgaac	tagccaggcg	420
tgttggcaca	tacctagtct	cagttacttg	gaaggctgag	gcaggaggat	cacttgagcc	480
caggtgggtg	cgccagacct	gggcaacata	gtgagaccct	gtctctttag	aaaaaacagg	540
ccaggcatgg	tggctcacac	ctgtaatccc	agcacttttg	gaggctgagg	tgggtggatc	600
acctgaggtc	gggagntcga	g				621

<210> 72  
 <211> 817  
 <212> DNA



<213> Homo sapiens

<220>

<221> misc\_feature

<222> (4)..(4)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (7)..(7)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (600)..(600)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (683)..(683)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (685)..(685)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (728)..(728)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (811)..(811)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (814)..(814)

<223> n equals a,t,g, or c

<400> 72

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aaattcatgg	gagtgaggatt	attaaataga	ataatatgaa	caattgtatg	gcttatgttt	180
gccttattgt	attcccaaag	agctgtaaca	ttttatagca	tcaccacttg	ggcaggggta	240
ttacctgttg	ttgctaattt	agtaagtaga	agagagagat	caaagtttct	ctaatttgtg	300
tttgtgtaat	ttatctgtat	acttcttca	tttatataaa	taaatgtctt	cactttggga	360
ggctgaggcg	ggcagatcac	ctgaggtcag	gagttcgaga	caagcctggc	caacatggta	420
aaaccccgctc	cctactaaaa	atacaaaaat	tagttggatg	tggtaggctca	catctgtagt	480
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cttgcagnac	atcccccttc	gccagctggc	gtaatagcga	aaaggcccgg	accgatcggc	780
ctttccaaca	gtgccaacct	gaatggcgaa	nggnaaa			817

<210> 73  
 <211> 1125  
 <212> DNA  
 <213> Homo sapiens

<400> 73  
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 caggggagca cagaagccca tggaagccca gggagatgtc cctggggcag acactaaggc 240  
 aggtgttgaa gacaagctgc ttgtcaagaa gcatttccc gcaagagagg ggcaagtcgg 300  
 gggctccaac tgggtacagc ctgggtgcag ttataagccc ctttggctta cttggtagaa 360  
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 gccctgctgg gaccttgtgg cttggctgga atccaggact gtattttcat ggagaagaac 780  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 1125

<210> 74  
 <211> 1284  
 <212> DNA  
 <213> Homo sapiens

<400> 74  
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 aaaaaaaaaa aaaaaaaaaa aaaa 1284

<210> 75

<211> 2927  
 <212> DNA  
 <213> Homo sapiens

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<400> 75
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aaggtctgaa tacagatgaa ttaggtcaga aggaagaagc aaagaactac tataagcaag      240
gaataggaca cctgctcaga gggatcagca tttcatcaaa agagtctgaa cacacaggtc      300
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<210> 76  
 <211> 1249

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1138)..(1138)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (1225)..(1225)  
 <223> n equals a,t,g, or c

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<210> 77  
 <211> 3097  
 <212> DNA  
 <213> Homo sapiens

<400> 77  
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 <211> 1160  
 <212> DNA  
 <213> Homo sapiens

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aaaaaaaaaa	aaaactcgag					1160

<210> 79  
 <211> 1061  
 <212> DNA  
 <213> Homo sapiens

<400> 79	
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ctgtacatac	gtgatgatga
gaggccagtc	ttctgtttcc
tttcatgtat	tccttgtata
ctcctgtgat	cttattttct
tggccaaggc	tgacagttaga
agaaatttag	gttaacgcga
gatgctgcta	aacaccccgc
agttagtgctg	argttggaaa
gaagtttcaa	taattaaaaa
ttaggcctgt	aaatcccarc
aatttgagac	ctgtgttggc
catggtggct	cctgcctgta
gagtccagga	ggttgaggct
gacagagcaa	gaccctgtct
ccaccaaagcg	cgtcttgtac
gtgggtggac	tggcagagga
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aatttgagtt	

<210> 80  
 <211> 1287  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1287)..(1287)  
 <223> n equals a,t,g, or c

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ccaccaaagcg	atgctgcggt
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gtgggtggac	ggagacatca
tggcagagga	cagatattca
ggagacatca	cagatattca
ccgaggattt	gctttgttg
aatttgagtt	

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<210> 81  
 <211> 762  
 <212> DNA  
 <213> Homo sapiens

<400> 81						
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gcagtctggc	tctttctccc	ctccctcccc	acccaagcct	cacctcccca	ccccttgaa	180
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<210> 82  
 <211> 1024  
 <212> DNA  
 <213> Homo sapiens

<400> 82						
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gtat						1024

<210> 83  
 <211> 1889  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1859)..(1859)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1864)..(1864)  
 <223> n equals a,t,g, or c

<400> 83						
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tccncttaaa	acccaccgtg	gtattacaa				1889



<210> 84  
 <211> 874  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (79)..(79)  
 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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<210> 86  
 <211> 1282  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (907)..(907)  
 <223> n equals a,t,g, or c

<400> 86						
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 <212> DNA  
 <213> Homo sapiens

<400> 87						
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<210> 88

<211> 1768

<212> DNA

<213> Homo sapiens

<400> 88

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 <211> 1131  
 <212> DNA  
 <213> Homo sapiens

<400> 89						
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 <211> 1915  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (490)..(490)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1899)..(1899)  
 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

<400> 91						
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1090)..(1090)

<223> n equals a,t,g, or c

<400> 92

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<210> 93

<211> 2078

<212> DNA

<213> Homo sapiens

<400> 93

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<210> 94  
 <211> 1992  
 <212> DNA  
 <213> Homo sapiens

<400> 94						
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<210> 95  
 <211> 1973  
 <212> DNA  
 <213> Homo sapiens

<400> 95  
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 ttaaaataaa aatttgaaca attaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1973

<210> 96  
 <211> 1117  
 <212> DNA  
 <213> Homo sapiens

<400> 96  
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<210> 97  
 <211> 1827  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (601)..(601)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (918)..(918)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1825)..(1825)  
 <223> n equals a,t,g, or c

<400> 97						
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aaaaaaaaaa	aaaaaaaaaa	ctcgtag				1827

<210> 98  
 <211> 2731  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (579)..(579)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1532)..(1532)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2362)..(2362)  
 <223> n equals a,t,g, or c

<400> 98						
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<210> 99  
 <211> 1346  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (291)..(291)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (421)..(421)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (423)..(423)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (425)..(425)  
 <223> n equals a,t,g, or c

<400> 99	
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cagccctgag	caagtgccag
tggagcagct	caagagcgag
ncnangagac	ccggcagcac
gctacgagga	ccaactgaag
aggagtccgt	gcagaagcag
tgccggcacia	gaattgagat
cgagcgggag	aatgcagaca
tcagaccgtc	ttggagtcca
ctttgtgaca	gaccgggaca
gcaggtggct	gagaggcagc
tgccctcctc	acagtccaaa
gggtgtctgac	ctccctcccc
gtaggtctgg	attcctccag
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<210> 100  
 <211> 536  
 <212> DNA  
 <213> Homo sapiens

<400> 100						
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ctagcagcaa	tgatgtacag	gtggatcttt	tttcacatta	acactaccag	ctgctccatg	180
gctatagtgc	ttaggaatat	ctcagaatth	caaagatct	atcagctgca	atatctagga	240
gtcttgccaa	cacagagaca	cattcacatg	ctgaaaagag	catgagttga	aggcacagct	300
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tgtccagaat	ttcaggctct	gctttaaaaa	ctaggctaca	aaccctcatt	cagaaagagg	420
tcagtaatat	gcctgtgagt	tagaaagata	ctggaaacat	ttcaatgcca	aaagtaacat	480
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<210> 101  
 <211> 1898  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (265)..(265)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1854)..(1854)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1859)..(1859)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1888)..(1888)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1897)..(1897)  
 <223> n equals a,t,g, or c

<400> 101						
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tcgggggtcgg	tgtgaagact	gctgaccggt	ggtaccggga	aggactgcga	accttagatg	120
acctccgaga	gcagccccag	aaactaacc	aacagcagaa	agcggggctc	cagcaccacc	180
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aagctgtggg	gcaggccctg	ctggngccac	cgtcacgctg	accggcggct	tcgcagggc	300
ctcatcctgt	accaccagca	ccagcacagc	tretgtrgt	cccctaccgc	cctggcccaa	360
caragccaca	tggacgcttt	tragagaagt	ttctgcattt	tccgcctacc	acaacctcca	420
ggggctgctg	tggggggatc	cacgaggccc	tgcccatcct	ggaagccgtg	agagtggact	480
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ttttccagcg	ggagctgcgc	cgcttcagcc	ggaaggagaa	gggcctgtgg	ctgaacagcc	600
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cagtaaaaaa	aaaaaaaaaa	aaaaagggcg	gccgctttta	aaggatcctt	cganggggnc	1860
ccaagcttac	gccgggcatt	gccaacgnca	taacttnt			1898

<210> 102  
 <211> 1982  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (35)..(35)  
 <223> n equals a,t,g, or c

<400> 102						
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cattaaatgt	gttcgacaag	taaggagaga	taactatgat	gctctcagat	cagtgttatt	540
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ag						1982

<210> 103  
 <211> 3034  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n equals a,t,g, or c

<400> 103	
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tggaagaagt	attcctgagg
ggaatgtcta	catttccctt
cattagttga	ccattgttta
atttttctag	gaaaagttaa
aaaggagaag	caagaaagag
agaaaggaaa	agacgaaggg
agaagaaaag	agaagtcgtt
cagcaggtct	cgggaccaca
agatcgacga	agaagcagaa
ggatcgaaga	agatcaaaaa
ggacagagaa	caagatagaa
aagtagtgtg	aagtcgggta
ggaaagtgrt	actaagaatg
gctktaagta	tgacacagatg
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agctattttg	tagcagactc
atttgtaata	tagtcgccat
tttctttttt	ttttttaata
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ttgggtctaca	gataaacttca
ttgcataaga	atccaacttg
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	cgag			3034

<210> 104  
 <211> 2008  
 <212> DNA  
 <213> Homo sapiens

<400> 104						
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 <212> DNA  
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<220>

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 <212> DNA  
 <213> Homo sapiens

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<220>  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <212> DNA  
 <213> Homo sapiens

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acaacagtat taattcgatt gaatgtggct gatgatgcag ttgcttagct tctttgtgtt 2640
tctttgcctt ttgtacttgt aaacagaaat ttgcgtataa atgtgagtgt attataaagt 2700
ttgagatgtt gatctaaatt gtttttgtgt tgcctacatt tgccttttca cagctagtct 2760
tttcawgtta aaaaaaaaaa aaaaaaaaaa a 2791

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<210> 116
<211> 669
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (23)..(23)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (37)..(37)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (75)..(75)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (97)..(97)
<223> n equals a,t,g, or c

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<220>

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<221> misc\_feature  
 <222> (108)..(108)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (202)..(202)  
 <223> n equals a,t,g, or c

<400> 116  
 tgggaggttc ttttataagc agngctcggt tagtganccg tagatcgcc tggagacgcc 60  
 atccacgctg ttttnacctc catagaagcc accgggnccg atccagcntc cggactctag 120  
 cctaggccgc gggacggata acaatttcac acaggaaaca gctatgacca ctaggctttt 180  
 gcaaaaagct atttaggtga cncatatagaa ggtacgcctg caggtagccg tccggaattc 240  
 ccgggtcgac ccacgcgtcc gccctgggga gcttggttctt caccagcaac gaaactcaga 300  
 cagcaatgga tgacttttctt ctggctgacg tggcctggaa cacgatggag tctcagttca 360  
 gctctgtaga aacccagact tctgcggaac cacacacagt ctccaacttc taaaactaac 420  
 ggtggagtcc atgtgtgaaa tggcatctac catttctctt ggattaaaac tacggactgg 480  
 ggacaacagt attaattcga ttgaatgtgg ctgatgatgc agttgcttag cttctttgtg 540  
 tttctttgcc ttttgtactt gtaaacagaa atttgcgtat aaatgtgagt gtattataaa 600  
 gtttgagatg ttgatctaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660  
 aaaaaaaaaa 669

<210> 117  
 <211> 1252  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (243)..(243)  
 <223> n equals a,t,g, or c

<400> 117  
 gagaagaagt actactccaa aaacttttgt aagtgctta ttcttcccta gcagtaggct 60  
 gttgctgagt tgtagactgg tggttttatg aaaaaaaaaa aggttgggga ggtgtgaaga 120  
 tggaaatgag ggctgtgtta tgtatatctg gtatctactt ctgttccagg tgcttaattc 180  
 accctcatag tgatgtttaa agtttagagga ttcttgtcca ttgtcttgtt cttctgtttg 240  
 canggtcaca tgcaggtaat aggctatggg aaggggaaga tgcctagatt acttctaggc 300  
 tggctctcaa gcccgaagt caagcctcct gagtagctga gactacaggc acacaccatc 360  
 gttctcaact tttctttttt aacataggct agctagctcc caccttagcc ttctagacc 420  
 ctccattata attcttattc aattgctdg gcctcccaa gtgctggaat tacagggtgtg 480  
 agccactgca cccagctatt ttttctatat ttttatgtag ttcattgagg gtaataattt 540  
 tatcctacaa caaacatgta agttattgaa gaattattgga gttttatgat aatgctgtca 600  
 taaatataaa aggtagggta agagggatcc aaatagagct cacttatatt gtcactgaa 660  
 ggcagtcacg ctgtgctgat agaattgtggc ctgacacttg atggagtgca gcatatgtat 720  
 acttgggcaa tttgagcaga tatatacggg cccgagttta aagaagagaa caaacaccag 780  
 tgcacagcta tagtattcct aatataggat gcatttttaa gaatttcaca ttctacaaat 840  
 ggagagagat ggcaggagaa gcttattttt aagtcctgca ctaaggcagg ttaacctcat 900  
 ggggtgtaatt acctggacct ttttgtaagg acaaaatatt taatcattaa aaggccctct 960  
 gtaggggttg aaatctctat attttatata tgaatgcttc ttttattaat atttatggta 1020  
 agatatttta tactgctgat aaacggacat taatgatata tagcctattg ttgaaaaaa 1080  
 gcatttttga ttatagccca aaactggaaa taaccaacag ataaataaat ggtgggtatat 1140  
 tcatacaata aaatactact cagataaaaa agatgaactt aatctcataa acattatggg 1200  
 caacatagtg agaaccatc tcttttaaaa aaaaaaaaaa aaaaaactcg aa 1252

<210> 118

<211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 118  
 Leu Leu Gly Thr Trp Leu Cys Pro Gln Leu Pro Pro Gly Leu Gly Ala  
   1                  5                  10                  15  
 His His Ala Pro Ser Ser Phe Ser Ser Tyr Leu Cys Pro Val Ser Pro  
                   20                  25                  30  
 Ser Ile Arg Leu Ser Asp Gly Thr Leu Trp Glu Arg Leu Trp Pro Trp  
           35                  40                  45  
 Ser Gly Gly Arg Glu Gln Gly Gly Arg His Lys  
       50                  55

<210> 119  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 119  
 Met Ser Cys Pro Ala His Ala Ser Pro Pro Cys Ser Asn Thr Ser Gly  
   1                  5                  10                  15  
 Cys Leu Glu Phe Ser Phe Cys Gly Phe Ala Leu Pro Ile Pro Ser Pro  
                   20                  25                  30  
 Val Leu His Ser Ser Trp Gln Gly Gly Glu Gly Trp Gly Trp Phe Gly  
           35                  40                  45  
 Trp Val Arg Gly Phe Phe Leu Cys Val Arg Cys Cys Tyr Leu Thr Val  
       50                  55                  60  
 Leu Arg Pro Tyr Trp Pro Phe Ser Ser Ser Ser Tyr Leu Tyr Gly Thr  
       65                  70                  75                  80  
 Ser Asn Lys Asp Thr His Phe Arg Pro Gly Lys Lys Lys Lys Lys Lys  
           85                  90                  95  
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
          100                 105                 110  
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
          115                 120                 125  
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
       130                 135

<210> 120  
 <211> 30  
 <212> PRT

<213> Homo sapiens

<400> 120

Met Leu Met Met Gly Thr Leu Val Leu Ile Leu Leu His Asp Val Ile  
1 5 10 15

Val Thr Phe Thr Glu Phe Tyr Asn Ala Gln Asn Leu Lys Trp  
20 25 30

<210> 121

<211> 23

<212> PRT

<213> Homo sapiens

<400> 121

Cys Leu Gln Trp Phe Val Pro Leu Val Pro Gln Gln Ile Pro Glu Leu  
1 5 10 15

Ile Leu Met Thr Ile Trp Lys  
20

<210> 122

<211> 20

<212> PRT

<213> Homo sapiens

<400> 122

Phe Leu Leu Ser Phe Cys Ala Phe Pro Gln Val Phe Met Phe Trp Val  
1 5 10 15

Ser Val Leu His  
20

<210> 123

<211> 21

<212> PRT

<213> Homo sapiens

<400> 123

Met Ile Tyr Leu Ser Ile Tyr Leu Leu Val Asn Ile Leu Ala ValSer  
1 5 10 15

Asn Ser Trp Pro Ser  
20

<210> 124

<211> 9

<212> PRT

<213> Homo sapiens

<400> 124  
 Met Phe Met Met Ser Val Tyr Ile Leu  
     1                    5

<210> 125  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 125  
 Met Thr Arg Cys Leu Trp Arg Thr Leu Gln  
     1                    5                    10

<210> 126  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 126  
 Met Phe Cys Gly Ala Cys Gln Ile Gly Trp Asn Leu Trp Gly Leu Leu  
     1                    5                    10                    15  
 Trp Glu Met Pro Arg Glu His Arg Phe Arg Arg Trp Glu Gln Leu Val  
                     20                    25                    30

<210> 127  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 127  
 Met Ser Val Leu Leu Leu Ser Ser Ser Cys Gly Ala Ala Phe Ala Val  
     1                    5                    10                    15  
 Leu Cys Pro Pro His Cys Glu  
                     20

<210> 128  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 128  
 Gly Trp Phe His Leu Phe Trp Gln Glu Trp Glu Gln Glu Pro Gly Gln  
     1                    5                    10                    15

Asn Lys Leu Leu Glu Ala Leu Val Leu Gly Thr Ala Ala Gly Arg Val  
                   20                  25                  30  
 Gly Thr Arg Gln Asn Cys Leu Gln Asp Glu Ser Gln Glu Arg Thr Leu  
                   35                  40                  45  
 Ser Pro Val Ser Gly Val Trp Leu  
           50                  55

<210> 129  
 <211> 3  
 <212> PRT  
 <213> Homo sapiens

<400> 129  
 Gly Tyr Ser  
   1

<210> 130  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 130  
 Met Tyr Ala Phe Leu Gln Gly Phe Ile Phe Leu Leu Leu Phe Phe Phe  
   1                  5                  10                  15  
 Ile Ala Glu

<210> 131  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 131  
 Gly Ala  
   1

<210> 132  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 132  
 Met Ile Ser Met Cys Gln Met Leu Arg Thr Thr Val Met Thr His Leu  
   1                  5                  10                  15

Trp Ile Val Thr Trp Ile Gln Arg Ser Trp Gln Glu Ser Gly Asp Ile  
20 25 30

Arg Val

<210> 133  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 133  
Met Ala Arg Asn Val Trp Phe Phe Ile Val Ser Phe Cys Tyr Lys Phe  
1 5 10 15

Leu Ser Tyr Phe Arg Ala Ser Ser Thr Leu Lys Val  
20 25

<210> 134  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 134  
Met Leu Ala Trp Gln His Phe Gln Ile Ala Phe Cys Leu Leu Gly Ser  
1 5 10 15

Trp Gly Phe Gly Gly Arg Gly Ser Ile Ser Thr Leu His Glu Ile Ala  
20 25 30

Tyr Phe Ile Met Met Glu Leu Leu Phe Leu Leu Ser Cys Asp Phe Phe  
35 40 45

Phe

<210> 135  
<211> 1  
<212> PRT  
<213> Homo sapiens

<400> 135  
Ile  
1

<210> 136  
<211> 71  
<212> PRT  
<213> Homo sapiens

<400> 136

Met Val Gln His Lys Thr Thr Phe Gln Val Leu Phe Leu Phe Gly Val  
1 5 10 15  
Ser Phe Gln Val Phe Lys Cys Ile Ser Gln Pro Glu His Leu Phe Asn  
20 25 30  
His Ile His Gly Ser Leu Leu Asn Ala Glu Leu Leu His Met Leu Asp  
35 40 45  
Leu Lys Ile Ile Ile Ile Glu Glu Thr Ile Gly Leu Val Val Pro Arg  
50 55 60  
Lys Val Ser Asp Val Tyr Val  
65 70

<210> 137

<211> 55

<212> PRT

<213> Homo sapiens

<400> 137

Met Trp Ala Leu Lys Ser Leu Phe Leu Leu Thr Pro Ser Pro Val Ile  
1 5 10 15  
Arg Phe Tyr Phe Ala Ala Leu Trp Ile Arg Ala Ala Gly Arg Leu Leu  
20 25 30  
Gly Gly Gly Gly Ser Pro Thr Pro Pro Thr Ser Leu Ala Pro Gly Phe  
35 40 45  
Ser Glu Ala Gly Gly Leu Cys  
50 55

<210> 138

<211> 265

<212> PRT

<213> Homo sapiens

<400> 138

Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp  
1 5 10 15  
Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr  
20 25 30  
Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala  
35 40 45  
Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu  
50 55 60



Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile  
 65 70 75 80  
 Leu Gln Gly Leu Val Asp Val Arg Ile Pro HisAsn Asn Phe Tyr Arg  
 85 90 95  
 Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His  
 100 105 110  
 Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln IleIle Trp Gly Lys  
 115 120 125  
 Gln Asp Ala Gly Ala Gly Cys Val Trp Gly Arg His Val Gly Gln Val  
 130 135 140  
 Asn Cys Gln Leu Pro Gly Gly Ala Ser Gly Lys Leu Trp Ala Leu Ser  
 145 150 155 160  
 Ser Asp Gly Lys Thr Gln Glu Asp Ser Gln Ala His Asn Arg Leu Phe  
 165 170 175  
 Ser Phe Cys Ala Gln His Arg Gln Gln Gln Glu Ala Gly Leu Arg Pro  
 180 185 190  
 Arg Leu Gln Pro Ala Phe Cys Thr Gln His Leu Leu Pro Ser Pro Lys  
 195 200 205  
 Ser Asp Ala Ala Thr Thr Leu Arg Asp Pro Ala Pro Asn Ala Val Gly  
 210 215 220  
 Ala Pro Val Thr Leu Arg Lys Pro Val Pro Tyr Pro Trp Tyr Pro Arg  
 225 230 235 240  
 Phe Pro Arg Ala Leu Gly Thr Thr Arg Lys Pro Pro Arg Tyr Phe Ser  
 245 250 255  
 Gln Asn Arg Asn Ser Tyr Gly Thr Lys  
 260 265

<210> 139  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 139  
 Met Leu Cys Val Leu Val Leu Phe Ile Leu Tyr Leu Pro Gly Phe Ser  
 1 5 10 15  
 Lys Ser Asn Gln Asp Val Pro Trp Gly Asp Ile Leu Cys  
 20 25

<210> 140  
 <211> 5

<212> PRT  
<213> Homo sapiens

<400> 140  
Trp Ala Ser Leu Thr  
1 5

<210> 141  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 141  
Met Lys Pro Ser Trp Gln Leu Pro Ser Cys Ala  
1 5 10

<210> 142  
<211> 120  
<212> PRT  
<213> Homo sapiens

<400> 142  
Met Met Cys Val Val Leu Thr Thr Leu Pro Cys Leu Thr Phe Ser Ile  
1 5 10 15  
Ala Val Thr Glu Val Gln Lys Ser Ile Asn Gly Ser Ala Asp Val Leu  
20 25 30  
Pro Asp Met Leu Pro Asp Leu Pro Val Ser Leu Val Leu Leu Ser Leu  
35 40 45  
Ile Met Val Asp Ile Ile Glu Lys Leu Arg Ile Tyr Pro Leu Arg Gly  
50 55 60  
Ser Gln Lys Ser Lys Cys Ser Phe Lys CysGlu Tyr Phe Leu Lys Phe  
65 70 75 80  
Asp Ile Phe Phe Thr Phe Leu Pro Leu Cys Tyr Leu Thr Thr Cys Leu  
85 90 95  
Met Ile Pro Phe Leu Arg Ala Asn IleThr Asp Arg Arg Leu Gln Met  
100 105 110  
Lys Ile Ser Lys His Asn Tyr Phe  
115 120

<210> 143  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 143  
 Met Gln Val Phe Glu Phe Phe  
     1                    5

<210> 144  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 144  
 Met Arg Ser Val Pro Ala Ile Leu Gln Met Leu Trp Ile Leu Arg Arg  
     1                    5                    10                    15  
 Ser Thr Asn Trp Thr Leu Tyr Leu Ile Leu His Gly Cys Pro Ala Val  
                     20                    25                    30  
 Val Cys Ala Trp Pro Arg Gln His Ala Pro Trp Gly Met Val Arg Leu  
                     35                    40                    45  
 Trp Val Pro Thr Ala Ala Pro Ala Ala Leu Ser Pro  
     50                    55                    60

<210> 145  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 145  
 Met Ala Phe Leu Pro Ser Pro Ala Trp Trp Ile Ser Leu Leu Pro Ser  
     1                    5                    10                    15  
 Leu Leu Ser Ile Ala Arg Ser  
                     20

<210> 146  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 146  
 Met Leu Leu Leu Ser Ile Val Leu Leu Leu Ile Leu  
     1                    5                    10

<210> 147  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 147

Met Gly Phe His Leu Leu Leu Gly Leu Val Asn Leu Leu Gly Leu Val  
 1 5 10 15  
 Asn Cys Phe Leu Leu Gly Lys Pro Asn Tyr Leu Ser Leu Ile Val Ser  
 20 25 30  
 Ile Val Ala Pro Leu Thr Phe Leu Phe Ser Phe Ile Ser Asn Ile Lys  
 35 40 45  
 Lys Lys Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser  
 50 55 60

<210> 148  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 148  
 Glu Ala Phe Cys Phe Leu Arg Ser Tyr Phe Cys Tyr Ser Cys Asn Ala  
 1 5 10 15  
 Pro Pro Tyr Met Pro His Leu Cys Glu Ser Thr Gly Ile Arg Phe Gly  
 20 25 30  
 His His Thr Cys Leu Lys Leu Gly Ser Val Cys Ser Val Phe Cys Val  
 35 40 45  
 Glu Trp Arg Lys Lys Arg Leu Pro Cys Cys Leu Pro Cys Ser  
 50 55 60

<210> 149  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 149  
 Met Arg Trp Asn Leu Leu Leu Val Lys Leu Leu  
 1 5 10

<210> 150  
 <211> 235  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (204)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 150  
 Met Gly Leu Pro Gly Leu Phe Cys Leu Ala Val Leu Ala Ala Ser Ser

1	5	10	15
Phe Ser Lys Ala Arg Glu Glu Glu Ile Thr ProVal Val Ser Ile Ala	20	25	30
Tyr Lys Val Leu Glu Val Phe Pro Lys Gly Arg Trp Val Leu Ile Thr	35	40	45
Cys Cys Ala Pro Gln Pro Pro Pro Ile Thr Tyr Ser LeuCys Gly	50	55	60
Thr Lys Asn Ile Lys Val Ala Lys Lys Val Val Lys Thr His Glu Pro	65	70	75
Ala Ser Phe Asn Leu Asn Val Thr Leu Lys Ser Ser Pro Asp Leu Leu	85	90	95
Thr Tyr Phe Cys Arg Ala Ser Ser Thr Ser Gly Ala His Val Asp Ser	100	105	110
Ala Arg Leu Gln Met His Trp Glu Leu Trp Ser Arg Gln Arg Gly Arg	115	120	125
Pro Gln Gly Gly Asp Asp Leu Pro Gly Val Leu Gly Gln Pro Thr Tyr	130	135	140
His Gln Gln Pro Asp Arg Glu Gly Trp Ala Gly Pro Pro Ala Ala Glu	145	150	155
Thr Met Pro Gln Ala Ala Cys Gln Leu Leu Leu Pro Ala Glu Pro Asp	165	170	175
Ile Gly Leu Val Leu Val Pro Gly Cys Lys Gln Arg Gln Cys Pro Ala	180	185	190
Gln Arg Pro His Ser Gly Ala Pro Arg Arg Val Xaa Gln Gly Thr His	195	200	205
His Arg Ala Gly Trp Gln Pro Cys Leu His Cys Gly His His Leu Gln	210	215	220
Asp Ala Gly Leu Asp Pro Arg Gly Pro Arg Trp	225	230	235

<210> 151  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 151  
 Met His Phe His Ala Asp Tyr Met His Gly Cys  
 1 5 10

<210> 152  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 152  
Met Arg Gln Gln Gln Thr His Leu Ala Ala Gly Val Leu Phe Cys Cys  
1 5 10 15  
Arg Leu Thr Phe Ser Ser Ser Val Ser Gly LysSer Gly  
20 25

<210> 153  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 153  
Leu Glu Ala Pro Ser Met Lys Thr Asp Thr Arg Thr Ile Phe Val Ala  
1 5 10 15  
Ile Phe Ser Cys Ile Ser Ile Leu Leu Leu Phe Leu Ser Val Phe Ile  
20 25 30  
Ile Tyr Arg Cys Ser Gln His Gly Glu Leu Arg Glu Arg Lys Gly Arg  
35 40 45  
Glu Gly Glu  
50

<210> 154  
<211> 2  
<212> PRT  
<213> Homo sapiens

<400> 154  
Asp Ile  
1

<210> 155  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 155  
Met Asn Val Ile Ile Val Leu Val His Ala Leu Cys Pro Trp Cys Arg  
1 5 10 15  
Gly Cys Pro His Trp Gly Pro Leu Val Pro Pro  
20 25

<210> 156  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 156  
 Met Val Lys Thr Val Ile Trp Gly His His Gln Met Met Trp Thr Phe  
           1                  5                          10                          15  
 Leu Gln Val Phe Trp His Thr Gln Ala Ser Cys His Trp Cys Ile Phe  
                   20                          25                          30  
 Gln Leu Thr Ser Gly Asp Asp Arg Asn Ser Leu Gln Gly Leu Ser Ile  
                   35                          40                          45  
 Trp Asp Gly Tyr Ile Lys Arg Glu Thr Asn Trp Ser Lys Ser Pro Glu  
           50                          55                          60  
 Arg Lys Ser His Ser Thr Asp Leu Ala Ser Val Leu Lys Asn Ser Asn  
           65                          70                          75                          80  
 Tyr Ile

<210> 157  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 157  
 Met Ala His Trp His Val Phe Tyr Val Phe Ser Cys His Ser  
           1                  5                          10

<210> 158  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 158  
 Met Leu Pro Pro Leu Leu Glu Trp Ala Val Phe Val Pro Leu Ser Gln  
           1                  5                          10                          15  
 Leu Leu Leu

<210> 159  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 159

Ile Asn Ser Trp Lys Arg Pro Val Asn Ala Ser Cys Phe Cys Ile Cys  
1 5 10 15

Val Leu Arg Trp Ala Leu Trp Phe Leu Cys Thr Gln Ser Thr Phe Leu  
20 25 30

Val Ile Thr Ile Val Ile Phe Ile Val Met Thr Ala Pro Glu Leu Trp  
35 40 45

<210> 160

<211> 26

<212> PRT

<213> Homo sapiens

<400> 160

Gly Gln Leu Arg Trp Ser Ser Leu Val Ser Gln Phe Ala Cys Leu Phe  
1 5 10 15

Ile Leu Phe Ser Ala Lys Cys Ile Pro Phe  
20 25

<210> 161

<211> 1

<212> PRT

<213> Homo sapiens

<400> 161

Phe  
1

<210> 162

<211> 24

<212> PRT

<213> Homo sapiens

<400> 162

Met Ser Ile Trp Leu Met His Phe Cys Leu Leu Val Leu Gly Lys Arg  
1 5 10 15

Met Ser Ile Leu Asp Val Lys Leu  
20

<210> 163

<211> 36



<212> PRT  
<213> Homo sapiens

<400> 163

Met Phe Cys His Cys Ile Val Cys Leu Leu Leu Val Leu Trp Ser Ser  
1 5 10 15  
Leu Pro Phe Phe Ile Pro Ser Phe Leu Leu Leu Lys Val Ile Leu Ser  
20 25 30  
Cys Gly Met Ile  
35

<210> 164  
<211> 43  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 164

Asp Gln Phe Ser Thr Ala Val Arg His Arg Val Pro Ala Gly His Trp  
1 5 10 15  
Gln Val Ala Gly Ser Thr Pro Thr Pro Cys Pro Xaa Asn Pro Asp Leu  
20 25 30  
Xaa Pro Gly Lys Glu Arg Glu Gly Pro Val Ser  
35 40

<210> 165  
<211> 281  
<212> PRT  
<213> Homo sapiens

<400> 165

Met Ala Glu Ala Leu Leu Leu Arg Ala Thr Phe Tyr LeuLeu Ile Gly  
1 5 10 15  
Asn Ala Asn Ala Ala Lys Pro Asp Leu Asp Lys Val Ile Ser Leu Lys  
20 25 30  
Glu Ala Asn Val Lys Leu Arg Ala Asn Ala Leu Ile Lys ArgGly Ser  
35 40 45

Met Tyr Met Gln Gln Gln Gln Pro Leu Leu Ser Thr Gln Asp Phe Asn  
 50 55 60  
 Met Ala Ala Asp Ile Asp Pro Gln Asn Ala Asp Val Tyr His His Arg  
 65 70 75 80  
 Gly Gln Leu Lys Ile Leu Leu Asp Gln Val Glu Glu Ala Val Ala Asp  
 85 90 95  
 Phe Asp Glu Cys Ile Arg Leu Arg Pro Glu Ser Ala Leu Ala Gln Ala  
 100 105 110  
 Gln Lys Cys Phe Ala Leu Tyr Arg Gln Ala Tyr Thr Gly Asn Asn Ser  
 115 120 125  
 Ser Gln Ile Gln Ala Ala Met Lys Gly Phe Glu Glu Val Ile Lys Lys  
 130 135 140  
 Phe Pro Arg Cys Ala Glu Gly Tyr Ala Leu Tyr Ala Gln Ala Leu Thr  
 145 150 155 160  
 Asp Gln Gln Gln Phe Gly Lys Ala Asp Glu Met Tyr Asp Lys Cys Ile  
 165 170 175  
 Asp Leu Glu Pro Asp Asn Ala Thr Thr Tyr Val His Lys Gly Leu Leu  
 180 185 190  
 Gln Leu Gln Trp Lys Gln Asp Leu Asp Arg Gly Leu Glu Leu Ile Ser  
 195 200 205  
 Lys Ala Ile Glu Ile Asp Asn Lys Cys Asp Phe Ala Tyr Glu Thr Met  
 210 215 220  
 Gly Thr Ile Glu Val Gln Arg Gly Asn Met Glu Lys Ala Ile Asp Met  
 225 230 235 240  
 Phe Asn Lys Ala Ile Asn Leu Ala Lys Ser Glu Met Glu Met Ala His  
 245 250 255  
 Leu Tyr Ser Leu Cys Asp Ala Ala His Ala Gln Thr Glu Val Ala Lys  
 260 265 270  
 Lys Tyr Gly Leu Lys Pro Pro Thr Leu  
 275 280

<210> 166  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 166  
 Met Leu Tyr Phe Leu Val Gln Leu Leu Thr Val Leu Ser Leu Leu Ser  
 1 5 10 15  
 Gly Met Ser Phe Leu Ile Arg Arg Gln Glu Glu Asn Lys Asn Gln Thr

20                      25                      30  
 Val Ser His Asn Gln Lys Pro Pro Leu Trp Gln Arg Gly Leu His Arg  
                     35                      40                      45  
 His Gln Gly Val Pro Pro Asp Arg Glu Arg Leu Gln Pro Ser Glu Ala  
                     50                      55                      60  
 Ile Leu Arg Ser Ser Cys Leu Gly Val  
                     65                      70

<210> 167  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 167  
 Met Ser Lys Phe Val Ser Leu Pro Val Phe Leu Ala Cys Ile Ser Pro  
                     1                      5                      10                      15  
 Trp Phe Asn Ser Tyr Gln Ile Phe Gly Arg Gly Gly Thr Glu Val Ser  
                     20                      25                      30  
 Ser His Ser Arg Ala Leu Gly Cys Pro Tyr  
                     35                      40

<210> 168  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 168  
 Met Cys Pro Pro His Leu Met Leu Ile Cys Leu Met Val Met Pro Arg  
                     1                      5                      10                      15  
 Val Gln Asp Leu Val Thr Cys Ala Val Val Asn Thr Gln Arg Leu Gly  
                     20                      25                      30  
 Arg Ser Val Ser Leu Val Leu Pro Ser Phe Lys Val His Gly Lys Ile  
                     35                      40                      45

<210> 169  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 169  
 Met Tyr Asn Leu Ser Ser Leu Phe Met Ile Ser Phe Leu Val Cys His

1 5 10 15  
Val Thr Pro Ser Gln Thr Leu Lys Gly Pro P<sub>o</sub> Leu Ser Trp Ser  
20 25 30

<210> 170  
<211> 65  
<212> PRT  
<213> Homo sapiens

<400> 170  
Gly Ser Phe Pro Ser Pro Lys His Arg Gln Arg Gly Gly Glu Gln Phe  
1 5 10 15  
Leu Val Leu Phe Leu Phe Leu Lys Trp Cys Leu Tyr Leu Gln Pro Pro  
20 25 30  
Gly Gly Leu Pro Trp Pro His Phe Ser Ala Pro Pro Arg His Arg His  
35 40 45  
Pro Ser Thr Leu Leu His Val Thr Arg Lys Met Pro Phe Ala Glu Cys  
50 55 60  
Thr  
65

<210> 171  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 171  
Met Phe Leu Cys Cys Gln Ile Gly Pro Leu Gly Pro P<sub>h</sub> Arg Phe Cys  
1 5 10 15  
Phe Leu Gly Ala Gly Phe Leu Pro Trp Thr Pro Ser Leu Gly Thr Val  
20 25 30  
Asp Ile Lys Cys Leu Ala  
35

<210> 172  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 172  
Met Phe Tyr Trp Gly Gly Leu Ser Phe Tyr Phe Leu Leu Ser Ser Gly  
1 5 10 15  
Val Gly Phe Tyr Cys Phe Leu Phe Gly Phe Gly Met Glu Ile Trp Ile

	20	25	30
--	----	----	----

Ala Ala

  

<210> 173  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

  

<400> 173  
 Met Leu Ile Ile Thr Pro Lys Leu Lys Lys Val Gly Ser Gln Pro Gln  
           1                  5                  10                  15  
 Met Glu Asp Trp Ala Pro Leu Leu Pro Ser Ser Ala Ser Leu Leu Pro  
                   20                  25                  30

  

<210> 174  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

  

<400> 174  
 Pro Ala Arg Leu Leu Pro Pro Gly Pro Ala Val Ala Leu Leu Leu  
           1                  5                  10                  15  
 Arg Gly Ser Cys Ser Leu Cys Cys Cys His Gln Pro His Lys Ala Ser  
                   20                  25                  30  
 Cys Lys Ala Met Pro Ser Ala Gly Ser Asn Val Pro  
           35                  40

  

<210> 175  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

  

<400> 175  
 His Arg Ala Val Ile Leu Ala Leu  
           1                  5

  

<210> 176  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 176

Met Ala Ala Ala Lys Ala Leu Ile Ser Leu Trp Leu Val Ser Ala Cys  
1 5 10 15

Gly Gln Trp Glu Thr Ser Phe Pro Ile Tyr Gly Gly Asp Met Glu Cys  
20 25 30

Gln Ala Val Val Phe Trp Trp Leu Glu Glu Glu Arg Lys  
35 40 45

<210> 177

<211> 34

<212> PRT

<213> Homo sapiens

<400> 177

Met Gln Cys Pro Tyr Leu Leu Gly Ala Gln Leu Leu Val Ser Ser Ile  
1 5 10 15

Cys Pro Val Val Pro Ala Leu Pro Arg Pro Val Asn Lys Cys Leu Val  
20 25 30

Pro Asp

<210> 178

<211> 39

<212> PRT

<213> Homo sapiens

<400> 178

Met Ser Glu Ala Gly Trp Trp Ala Trp Leu Phe Val Ile Leu His Pro  
1 5 10 15

Phe Gly Met Pro Asp Thr Phe His Asn Asn Phe Lys Lys Asp Lys Thr  
20 25 30

Thr Ala Glu Lys Cys Ile Glu  
35

<210> 179

<211> 10

<212> PRT

<213> Homo sapiens

<400> 179

Met Gly Val Gly Leu Leu Asn Arg Ile Ile  
1 5 10

<210> 180  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 180  
 Leu Phe Trp Ser Val Ser Glu Thr Gly Ile Ala Phe Gly Val Ser Arg  
   1                  5                  10                  15  
 Val Leu Gly Met Leu Glu Gly His Leu Gln Glu Ala Trp Gly Arg Arg  
                   20                  25                  30  
 Glu Ile Ser Cys Asp Ala Leu  
                   35

<210> 181  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 181  
 Ser Leu Lys Ile Phe Ser Val Ser Gly Val Leu Gln Gly Trp Pro Leu  
   1                  5                  10                  15  
 Ala Pro Glu Pro Leu Pro Gln Cys Ser His GlnPro Pro Pro His Pro  
                   20                  25                  30  
 Ser Val Cys Arg Ala Ser Ser Thr Gly Pro His Ala Ala Phe Phe Thr  
                   35                  40                  45  
 His Ser Ala Leu Gly Arg Phe Val Ile Trp Leu Ser Leu HisTrp Ala  
   50                  55                  60  
 Glu Val Cys Val His Arg Val Gly Val Pro Ser Ser Pro Phe His Ser  
   65                  70                  75                  80  
 Glu Gly His Thr Gln Arg Cys Gln  
                   85

<210> 182  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 182  
 Met Glu Thr Pro Gln Leu Gln Val Gln Gly Gln Leu Leu His Leu Leu  
   1                  5                  10                  15  
 Leu Cys Leu Tyr His His Lys Val Val Gln Gln Lys Leu Leu Leu Leu  
                   20                  25                  30  
 Ile Leu Leu Lys Leu Leu Lys Val Thr Thr Leu Tyr Pro Met Glu Gln  
                   35                  40                  45

Ile Leu Gly Ser Phe His Gln Leu Glu Arg Ser Phe Ile Gly Ile Ile  
50 55 60

Leu Ser His Arg Leu Leu Arg Pro  
65 70

<210> 183  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 183  
Met Ser Gly Val Lys Leu Gln Leu Phe Gly Thr Arg Leu Ser Leu Pro  
1 5 10 15

Leu Ser Ser Tyr  
20

<210> 184  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 184  
Met Asn Ser Tyr Met Cys Ala Cys Val Phe Ser Ser Glu Ile His Leu  
1 5 10 15

Gly Gly Gly Phe Phe Cys Phe Phe Asn Ser Val Pro Asp Leu  
20 25 30

<210> 185  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 185  
Met Ala Leu Thr Leu Pro Ser Gln Trp Val Phe Leu ValPhe Ile Leu  
1 5 10 15

Asp Asp Leu Tyr Ala His Leu Ser Leu Ser Arg Asn Phe Cys Trp Lys  
20 25 30

His Leu Leu Phe  
35

<210> 186  
<211> 26  
<212> PRT



<213> Homo sapiens

<400> 186

Ile Phe Leu His Leu Leu Ser Cys Ser Leu Leu Phe Ala Trp Thr Asn  
1 5 10 15

Gly Glu Lys Ser Ala Gln Asn Glu Ile Met  
20 25

<210> 187

<211> 57

<212> PRT

<213> Homo sapiens

<400> 187

Trp Val Asp Trp Gln Arg Lys Trp Thr Thr Lys Phe Phe Met Leu Arg  
1 5 10 15

Ser Phe Leu Leu Glu Thr Ser Gln Ile Phe Arg Phe Leu Trp Ile Met  
20 25 30

Lys Gln Lys Ser Thr Glu Asp Leu Leu Leu Leu Asn Leu Ser Trp Gln  
35 40 45

Arg Met Leu Gln Gln Leu Ser Thr Thr  
50 55

<210> 188

<211> 27

<212> PRT

<213> Homo sapiens

<400> 188

Pro Ala Pro His Leu Pro Arg Leu Thr Leu Pro Cys Gln Val Val Trp  
1 5 10 15

Gly Pro Arg Cys Trp Gly Gly Glu Ser Gly Ser  
20 25

<210> 189

<211> 66

<212> PRT

<213> Homo sapiens

<400> 189

Asp Leu Leu Leu Leu Phe Cys Gly Asp Val Pro Cys Ser Leu Tyr Val  
1 5 10 15

Ser Ser His Val Cys Leu Cys Thr His Ile Ala Ser Cys Ala Val Phe  
20 25 30

Val Ser Leu Pro Leu Met Pro Ala Ser Gly Met Met Glu Arg Leu Trp  
 35 40 45

Ser Arg Leu Arg Ile Met Thr Ala Tyr Lys Thr AspSer Thr Leu Thr  
 50 55 60

Gly Lys  
 65

<210> 190  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 190  
 Met Val Lys Thr Val Phe Ala His Cys Phe Leu Leu Phe His Leu Val  
 1 5 10 15

Thr Asn Asp Gln Asp Asp Leu Ile Phe Phe Pro Ser  
 20 25

<210> 191  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 191  
 Met Leu Ser Gln Thr Asn Gly Ser His Val Ala Ser Thr Leu Leu Ser  
 1 5 10 15

Phe Ala Val Ala Trp Leu Gly Ile Leu Gly Ser Ser Pro Ser Pro Thr  
 20 25 30

Leu Ser Ala Pro Ser Gln Phe Leu Pro Gly Pro His Thr Leu Leu Gln  
 35 40 45

Leu Pro Thr Leu Leu Gln Ser His Cys Arg Pro  
 50 55

<210> 192  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<400> 192  
 Phe Val Cys Ile  
 1

<210> 193

<211> 323  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (217)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (226)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (229)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 193  
 Met Glu Leu Ser Lys Ala Phe Ser Gly Gln Arg Thr Leu Leu Ser Ala  
   1                  5                  10                  15  
 Ile Leu Ser Met Leu Ser Leu Ser Phe Ser Thr Thr Ser Leu Leu Ser  
                   20                  25                  30  
 Asn Tyr Trp Phe Val Gly Thr Gln Lys Val Pro Lys Pro Leu Cys Glu  
                   35                  40                  45  
 Lys Gly Leu Ala Ala Lys Cys Phe Asp Met Pro Val Ser Leu Asp Gly  
   50                  55                  60  
 Asp Thr Asn Thr Ser Thr Gln Glu Val Val Gln Tyr Asn Trp Glu Thr  
   65                  70                  75                  80  
 Gly Asp Asp Arg Phe Ser Phe Arg Ser Phe Arg Ser Gly Met Trp Leu  
                   85                  90                  95  
 Ser Cys Glu Glu Thr Val Glu Glu Pro Gly Glu Arg Cys Arg Ser Phe  
                   100                  105                  110  
 Ile Glu Leu Thr Pro Pro Ala Lys Arg Glu Asn Pro Met Val Ile Pro  
   115                  120                  125  
 Gly Asn Ala Asp His Leu His Arg Thr Ser Ile His Gln Leu Pro Pro  
   130                  135                  140  
 Ala Thr Asn Arg Leu Ala Thr His Trp Glu Pro Cys Leu Trp Ala Gln  
 145                  150                  155                  160  
 Thr Glu Arg Leu Cys Cys Cys Phe Leu Cys Pro Val Arg Ser Pro Gly  
                   165                  170                  175  
 Asp Val Ala His Met Met Tyr Ser Gln Val Phe Gln Ala Thr Val Asn  
                   180                  185                  190  
 Leu Gly Pro Glu Asp Trp Arg Pro His Val Trp Asn Tyr Gly Trp Ala

195	200	205
Phe Tyr Met Ala Cys Ser	Pro Ser Xaa Ala Ala	Trp Arg Arg Leu Ser
210	215	220
Pro Xaa Ser Thr Xaa Thr	Pro Gly Trp Cys Trp	Ser Ser Ser Ala Ser
225	230	235
Ile Val Lys Ser Phe Lys Glu Asn Pro Asn Cys Leu Pro His His His		
245	250	255
Gln Cys Phe Pro Arg Arg Leu Ser Ser Ala Ala Pro Thr Val Gly Pro		
260	265	270
Leu Thr Ser Tyr His Gln Tyr His Asn Gln Pro Ile His Ser Val Ser		
275	280	285
Glu Gly Val Asp Phe Tyr Ser Glu Leu Arg Asn Lys Gly Phe Gln Arg		
290	295	300
Gly Ala Ser Gln Glu Leu Lys Glu Ala Val Arg Ser Ser Val Glu Glu		
305	310	315
320		
Glu Gln Cys		

<210> 194  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 194  
 Met Ala Ala Met Arg His Leu Leu Arg Leu Phe Ser Gly Cys Gly Asp  
 1 5 10 15  
 Leu Gly Phe Leu Thr Leu Tyr Ile Phe Phe Leu Tyr Ser Lys Glu Asn  
 20 25 30  
 Asn Phe

<210> 195  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 195  
 Met Thr Ser Val Gln Gln Phe Cys Ile Tyr Ser Glu  
 1 5 10

<210> 196

<211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 196  
 Met Arg Gly Lys His Val Cys Leu Leu Leu Leu Leu Gly Arg Phe  
           1                  5                  10                  15

<210> 197  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 197  
 Met Ser His Phe Arg Pro Ala Arg Cys Leu Pro Gly Pro Cys Gln Thr  
           1                  5                  10                  15  
  
 Leu Leu Thr Phe Pro Leu Leu Val Cys Ala Gly Leu Arg Arg Pro Pro  
                   20                  25                  30  
  
 Arg Pro His Ser Thr Gln Pro Gly Ser Ser Cys Ser Pro Arg His Pro  
           35                  40                  45  
  
 Ser Phe Pro Ser Leu Ser Trp Val Met Leu Leu Pro Pro Cys Val Thr  
           50                  55                  60  
  
 Phe Glu Ala Val Lys  
           65

<210> 198  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 198  
 Met Trp Leu Ser Ala Phe Phe Leu Ala Arg Leu Ala Asp Ser Val Leu  
           1                  5                  10                  15  
  
 Glu Glu Ser Ile Ile  
                   20

<210> 199  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 199  
 Met Ser Thr Phe Leu Trp Asp Ile Gln Thr Thr Tyr Cys Phe

1 5 10

<210> 200  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 200  
Leu Pro Arg Leu Gln Ser Ala Leu Leu Leu Leu Pro Leu Pro Pro Thr  
1 5 10 15  
Leu Gln Gly His Val Arg Ala Pro Ile Tyr Pro Pro Pro Ala Cys Arg  
20 25 30  
Ser

<210> 201  
<211> 234  
<212> PRT  
<213> Homo sapiens

<400> 201  
Lys Leu Leu Tyr Thr Thr Leu Arg His Pro Lys Cys Phe Leu Gln Arg  
1 5 10 15  
Leu Ser Leu Glu Asn Cys His Leu Thr Glu Ala Asn Cys Lys Asp Leu  
20 25 30  
Ala Ala Val Leu Val Val Ser Arg Glu Leu Thr His Leu Cys Leu Ala  
35 40 45  
Lys Asn Pro Ile Gly Asn Thr Gly Val Lys Phe Leu Cys Glu Gly Leu  
50 55 60  
Arg Tyr Pro Glu Cys Lys Leu Gln Thr Leu Val Leu Trp Asn Cys Asp  
65 70 75 80  
Ile Thr Ser Asp Gly Cys Cys Asp Leu Thr Lys Leu Leu Gln Glu Lys  
85 90 95  
Ser Ser Leu Leu Cys Leu Asp Leu Gly Leu Asn His Ile Gly Val Lys  
100 105 110  
Gly Met Lys Phe Leu Cys Glu Ala Leu Arg Lys Pro Leu Cys Asn Leu  
115 120 125  
Arg Cys Leu Trp Leu Trp Gly Cys Ser Ile Pro Pro Phe Ser Cys Glu  
130 135 140  
Asp Leu Cys Ser Ala Leu Ser Cys Asn Gln Ser Leu Val Thr Leu Asp  
145 150 155 160



<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 205  
 Met Arg Ala Phe Ile Trp Thr Cys Gly Thr Trp Thr Leu Trp Ser Leu  
   1                  5                  10                  15  
 Ser Asp Arg Ser Leu Gly Ser Ser Arg Ile Cys Met Gly Phe Ala Gly  
                   20                  25                  30  
 Ser Leu Lys Arg Pro Gly Arg Thr Lys Ala Xaa Thr Thr Phe Trp Gly  
           35                  40                  45  
 Thr Trp Phe  
       50

<210> 206  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 206  
 Met Gln Leu Glu Ala Leu Asn Leu Leu His Thr Leu Val Trp Ala Arg  
   1                  5                  10                  15  
 Ser Leu Cys Arg Ala Gly Ala Val Gln Thr Gln Glu Arg Leu Xaa Gly  
                   20                  25                  30  
 Ser Ala Ser Pro Glu Gln Val Pro Ala Gly Glu Cys Cys Ala Leu Gln  
           35                  40                  45  
 Glu Tyr Glu Ala Ala Val Gly Ala Ala Gln Glu Arg Ala Asp Pro Gly  
   50                  55                  60  
 Ala Gly  
   65

<210> 207  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 207  
 Met Leu Leu Glu Lys Val Ile Arg Leu Arg Cys Ser Cys Phe Val Leu  
   1                  5                  10                  15



Leu Cys Phe Ser Leu Ser Trp Val Gly Val Ser Ser Ser Asn Asp Val  
20 25 30

Gln Val Asp Leu Phe Ser His  
35

<210> 208  
<211> 71  
<212> PRT  
<213> Homo sapiens

<400> 208  
Met Asn Gly Lys Trp Ser Leu Met Cys Ser Val Ser Leu Val Ala Leu  
1 5 10 15

Gln Leu Thr Val Ala Pro Ala Gly His Pro Ala Gln Asn Ala Gln Lys  
20 25 30

Arg Thr Met His Thr Cys Thr Ala Phe Glu Ser His Glu Leu Glu Ala  
35 40 45

Val Val Arg Ala Ser Lys Glu Pro Thr Val Trp Cys Ala Val Gly Ile  
50 55 60

Trp Arg Gly Arg Gly Pro Gly  
65 70

<210> 209  
<211> 327  
<212> PRT  
<213> Homo sapiens

<400> 209  
Met Leu Ala Thr Ser Gln Ala Leu Asp Thr Val Trp Arg Met Ala Lys  
1 5 10 15

Gly Phe Val Met Leu Ala Val Ser Phe Leu Val Ala Ala Ile Cys Tyr  
20 25 30

Phe Arg Arg Leu His Leu Tyr Ser Gly His Lys Leu Lys Trp Trp Ile  
35 40 45

Gly Tyr Leu Gln Arg Lys Phe Lys Arg Asn Leu Ser Val Glu Ala Glu  
50 55 60

Val Asp Leu Leu Ser Tyr Cys Ala Arg Glu Trp Lys Gly Glu Thr Pro  
65 70 75 80

Arg Asn Lys Leu Met Arg Lys Ala Tyr Glu Glu Leu Phe Trp Arg His  
85 90 95

His Ile Lys Cys Val Arg Gln Val Arg Arg Asp Asn Tyr Asp Ala Leu

100					105					110					
Arg	Ser	Val	Leu	Phe	Gln	Ile	Phe	Ser	Gln	Gly	Ile	Ser	Phe	Pro	Ser
		115					120					125			
Trp	Met	Lys	Glu	Lys	Asp	Ile	Val	Lys	Leu	Pro	Glu	Lys	Leu	Leu	Phe
	130					135					140				
Ser	Gln	Gly	Cys	Asn	Trp	Ile	Gln	Gln	Tyr	Ser	Phe	Gly	Pro	Glu	Lys
145					150					155					160
Tyr	Thr	Gly	Ser	Asn	Val	Phe	Gly	Lys	Leu	Arg	Lys	Tyr	Val	Glu	Leu
				165					170					175	
Leu	Lys	Thr	Gln	Trp	Thr	Glu	Phe	Asn	Gly	Ile	Arg	Asp	Tyr	His	Lys
			180					185					190		
Arg	Gly	Ser	Met	Cys	Asn	Thr	Leu	Phe	Ser	Asp	Ala	Ile	Leu	Glu	Tyr
		195					200					205			
Lys	Leu	Tyr	Glu	Ala	Leu	Lys	Phe	Ile	Met	Leu	Tyr	Gln	Val	Thr	Glu
	210					215					220				
Val	Tyr	Glu	Gln	Met	Lys	Thr	Lys	Lys	Val	Ile	Pro	Ser	Leu	Phe	Arg
225					230					235					240
Leu	Leu	Phe	Ser	Arg	Glu	Thr	Ser	Ser	Asp	Pro	Leu	Ser	Phe	Met	Met
				245					250					255	
Asn	His	Leu	Asn	Ser	Val	Gly	Asp	Thr	Cys	Gly	Leu	Glu	Gln	Ile	Asp
			260					265					270		
Met	Phe	Ile	Leu	Gly	Tyr	Ser	Leu	Glu	Val	Lys	Ile	Lys	Val	Phe	Arg
		275					280					285			
Leu	Phe	Lys	Phe	Asn	Ser	Arg	Asp	Phe	Glu	Val	Cys	Tyr	Pro	Glu	Glu
	290					295					300				
Pro	Leu	Arg	Asp	Trp	Pro	Glu	Ile	Ser	Leu	Leu	Thr	Glu	Asn	Asp	Arg
305					310					315					320
His	Tyr	His	Ile	Pro	Val	Phe									
				325											

<210> 210

<211> 7

<212> PRT

<213> Homo sapiens

<400> 210

Met Phe Glu Cys Tyr Cys Leu

1

5

<210> 211  
 <211> 130  
 <212> PRT  
 <213> Homo sapiens

<400> 211  
 Met Tyr Gln Thr Pro Met Glu Val Ala Val Tyr Gln Leu His Asn Phe  
   1                  5                  10                  15  
 Ser Ile Ser Phe Phe Ser Ser Leu Leu Gly Gly Asp Val Val Ser Val  
                   20                  25                  30  
 Lys Leu Asp Asn Ser Ala Ser Gly Ala Ser Val Val Ala Ile Asp Asn  
           35                  40                  45  
 Lys Ile Glu Gln Ala Met Asp Leu Val Lys Asn His Leu Met Tyr Ala  
       50                  55                  60  
 Val Arg Glu Glu Val Glu Ile Leu Lys Glu Gln Ile Arg Glu Leu Val  
   65                  70                  75                  80  
 Glu Lys Asn Ser Gln Leu Glu Arg Glu Asn Thr Leu Leu Lys Thr Leu  
                   85                  90                  95  
 Ala Ser Pro Glu Gln Leu Glu Lys Phe Gln Ser Cys Leu Ser Pro Glu  
           100                  105                  110  
 Glu Pro Ala Pro Glu Ser Pro Gln Val Pro Glu Ala Pro Gly Gly Ser  
       115                  120                  125  
 Ala Val  
       130

<210> 212  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 212  
 Ala Leu Trp Leu Leu Leu Gln Leu Ser  
   1                  5

<210> 213  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 213  
 Met Trp Leu Met Met Gln Leu Leu Ser Phe Phe Val Phe Leu Cys Leu  
   1                  5                  10                  15  
 Leu Tyr Leu

<210> 214  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 214  
Met Phe Lys Val Arg Gly Phe Leu Ser Ile Cys Leu Val Phe Cys Trp  
1 5 10 15  
Gln Val Thr Cys Arg  
20

<210> 215  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 215  
Met Pro Trp Cys Leu Leu Pro Leu Cys Leu His Ile Leu Cys Val Ser  
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<210> 216  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 216  
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Ala Gln Lys Gly Pro Lys  
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<211> 327  
<212> PRT  
<213> Homo sapiens

<400> 217  
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 Gly Tyr Leu Gln Arg Lys Phe Lys Arg Asn Leu Ser Val Glu Ala Glu  
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 Val Asp Leu Leu Ser Tyr Cys Ala Arg Glu Trp Lys Gly Glu Thr Pro  
 65 70 75 80  
 Arg Asn Lys Leu Met Arg Lys Ala Tyr Glu Glu Leu Phe Trp Arg His  
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 His Ile Lys Cys Val Arg Gln Val Arg Arg Asp Asn Tyr Asp Ala Leu  
 100 105 110  
 Arg Ser Val Leu Phe Gln Ile Phe Ser Gln Gly Ile Ser Phe Pro Ser  
 115 120 125  
 Trp Met Lys Glu Lys Asp Ile Val Lys Leu Pro Glu Lys Leu Leu Phe  
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 Ser Gln Gly Cys Asn Trp Ile Gln Gln Tyr Ser Phe Gly Pro Glu Lys  
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 Tyr Thr Gly Ser Asn Val Phe Gly Lys Leu Arg Lys Tyr Val Glu Leu  
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 Arg Gly Ser Met Cys Asn Thr Leu Phe Ser Asp Ala Ile Leu Glu Tyr  
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 Lys Leu Tyr Glu Ala Leu Lys Phe Ile Met Leu Tyr Gln Val Thr Glu  
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 Val Tyr Glu Gln Met Lys Thr Lys Lys Val Ile Pro Ser Leu Phe Arg  
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 260 265 270  
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His Tyr His Ile Pro Val Phe  
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<210> 218  
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<212> PRT  
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<400> 218  
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<210> 219  
<211> 130  
<212> PRT  
<213> Homo sapiens

<400> 219  
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Lys Leu Asp Asn Ser Ala Ser Gly Ala Ser Val Val Ala Ile Asp Asn  
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Lys Ile Glu Gln Ala Met Asp Leu Val Lys Asn His Leu Met Tyr Ala  
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Val Arg Glu Glu Val Glu Ile Leu Lys Glu Gln Ile Arg Glu Leu Val  
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Glu Lys Asn Ser Gln Leu Glu Arg Glu Asn Thr Leu Leu Lys Thr Leu  
85 90 95

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Ala Val  
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<210> 220  
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<212> PRT  
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<400> 220

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<400> 221  
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<210> 222  
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<212> PRT  
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<400> 222  
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<400> 223  
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Leu Tyr Leu

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<211> 3350  
<212> DNA  
<213> Homo sapiens

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 <213> Homo sapiens

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 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 229						
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<210> 230
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<212> DNA
<213> Homo sapiens

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<210> 231
<211> 780
<212> DNA
<213> Homo sapiens

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<400> 231
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<210> 232
<211> 1262
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<400> 232

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 <212> DNA  
 <213> Homo sapiens

<400> 233						
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 <212> DNA  
 <213> Homo sapiens

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<212> DNA  
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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 286

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<212> DNA  
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 <213> Homo sapiens

<400> 322						
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tcttagccag	ctcgtgtctg	aatgtgagt	accttttggg	cctggcactg	ggcaggcctt	780
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<210> 323



<211> 462  
 <212> DNA  
 <213> Homo sapiens

<400> 323  
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 aactcattta gaaaatccct tcatacatac atctaaacta gtgttagatc aaatatctgg 240  
 gtactgtggc tcatccaggc tgaaccataa aattaaccat cacacctgtg caagcgcttt 300  
 tccctcctgg atggtgtcct agggatgaca gaggagggga aagccaggtc tctgcttcaa 360  
 ggagacaaaa ttatgcatac gaagaaatta agaatgctgc tgtgtctgtg gtagtagccat 420  
 tcttttattc ctttactttc ttaacaaact tgcttttact ta 462

<210> 324  
 <211> 1100  
 <212> DNA  
 <213> Homo sapiens

<400> 324  
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 gccaccaacc gcataaggcg agdgcaaag ccatgccatc tgcaggctcc aatgtaccat 180  
 agatgactcc tctcttctct cctcctccag cctggcttgg agcagctaga tgggcaaagc 240  
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 tgcactcctc agggagcagg agtaggagaa actcaggccc agccaggccc tgcccaccca 540  
 agttctgggt ccogttcctg atgcctccac ccacagtgcc ctatcccccc acccccacca 600  
 cagtgggtgcc cactactccc tgcccagtag tcccagggtg tctctgcaac acagagcatg 660  
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 ccccccaacc ccacctcgag 1100

<210> 325  
 <211> 1099  
 <212> DNA  
 <213> Homo sapiens

<400> 325  
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 ggaaagtggc agaagccgta tttgaacccc agcaggctct cctctgaagt ccacacacgt 180  
 cagcgctctt gtgttgtctc tttgccagca cagggtctcc tggagcccag agatgggggt 240  
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 atctcactgt ggcttgtctc tgccctgcggc caatgggaaa cctcctttcc catatacgg 480  
 ggggacatgg agtgtcaggc tgtcgatttc tgggtggctgg agggaggagag gaagtggat 540  
 gggaggaaaa aggcctgtcc tctcccacgc agagactccg gacagcagga tgtgtggaat 600  
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gaggaataca	cagcccacct	tcccaatatc	gcaggcaaca	gttccaccaa	atgccctgca	960
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<210> 326  
 <211> 869  
 <212> DNA  
 <213> Homo sapiens

<400> 326						
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tcagatggtg	agggggccca	ggcgactgcc	ccagcagcag	ggcctgggag	ctgcacaggg	180
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<210> 327  
 <211> 851  
 <212> DNA  
 <213> Homo sapiens

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gggactccca	cctggtgccc	tgagctcatc	atcccttctc	ttgtagcata	tgctgtcaat	420
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ctgcaccggg	gaataaatgt	cgtctcattt	gccagctgag	tgtagcagg	ttccagggtc	780
cattacacat	caggaattgt	gtccgactct	tctggatccg	ctgattggac	ctgaggggatc	840
cctgactcga	g					851

<210> 328  
 <211> 147  
 <212> DNA  
 <213> Homo sapiens

<400> 328  
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 tctctactaa aaatacaaaa attagcc 147

<210> 329  
 <211> 111  
 <212> DNA  
 <213> Homo sapiens

<400> 329  
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 tcacctgagg tcaggagttc gagaccagcc ccgccaacat ggcgaaaccc c 111

<210> 330  
 <211> 610  
 <212> DNA  
 <213> Homo sapiens

<400> 330  
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 gatacatttc ataataattt taaaaaggac aagactattg cagagaaatg catagagtga 180  
 gctctgtttg ggtttttaaa atgattccta catctatgct tgcagatgta agcaccagcc 240  
 ctggaaaaca ttgcaaggga ttcttagtag gcccaagctt tgggaaaggg ccagggggg 300  
 tggggagttg attaggaggg gatacatgct ttttctgct gccttttgaa ttttgtacca 360  
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 cctagtctca gttacttgga aggctgaggc aggaggatca cttgagccca ggtggttgcg 480  
 gccagcctgg gcaacatagt gagaccctgt ctctttagaa aaaacaggcc aggcattggtg 540  
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 gagctcgaga 610

<210> 331  
 <211> 610  
 <212> DNA  
 <213> Homo sapiens

<400> 331  
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 gctctgtttg ggtttttaaa atgattccta catctatgct tgcagatgta agcaccagcc 240  
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 cctagtctca gttacttgga aggctgaggc aggaggatca cttgagccca ggtggttgcg 480  
 gccagcctgg gcaacatagt gagaccctgt ctctttagaa aaaacaggcc aggcattggtg 540  
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<210> 332  
 <211> 612  
 <212> DNA  
 <213> Homo sapiens

<400> 332

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<210> 333  
 <211> 375  
 <212> DNA  
 <213> Homo sapiens

<400> 333						
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<210> 334  
 <211> 873  
 <212> DNA  
 <213> Homo sapiens

<400> 334						
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<210> 335  
 <211> 375  
 <212> DNA  
 <213> Homo sapiens

<400> 335						
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cacagcattt	gcttcttaca	tgaattttta	atthttggaat	aatttcagat	ttacagagaa	240
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<210> 336  
 <211> 1798  
 <212> DNA  
 <213> Homo sapiens

<400> 336						
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<210> 337  
 <211> 1186  
 <212> DNA  
 <213> Homo sapiens

<400> 337						
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<212> DNA

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<213> Homo sapiens

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 <213> Homo sapiens

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